



## Rebeca Miranda Castro

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## Summary of CV

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

I am Associate Professor at the University of Oviedo, Department of Physical and Analytical Chemistry (Spain). I perform teaching work in different courses of the Degree in Chemistry, Degree in Biotechnology, and Master in Analytical and Bioanalytical Sciences as well as research activities. I got my Ph.D. in Chemistry with European Mention by the University of Oviedo in September 2009. In 2010, I joined the Laboratoire d'Electrochimie Moléculaire at the University of Paris Diderot (France) for three years, working under Dr. Limoges supervision and collaborating with Professor JM Savéant.

I am co-author of 43 articles in International peer-reviewed journals (81% Q1, 43% D1, and 14% in Chemistry Multidisciplinary category) as well as 6 book chapters.

My Scopus H-index is 18 and my average impact factor is 6.0.

My research has been presented in (inter)national conferences: 46 oral communications, 25 poster communications, and 3 awards for the best communication.

I was principal investigator of a Regional Project and member of the research team of 1 European Project (International Research Staff Exchange Scheme (IRSES)-Marie Curie Actions), 6 National Projects, and 4 Regional Projects.

Furthermore, I cosupervised 1 PhD Thesis (one more in progress), 5 Master Projects, and 8 Final Degree Projects. My field of expertise is Bioelectroanalysis. My current research interests are focused on the development of electrochemical biosensors for clinical diagnosis using different molecular recognition elements based on nucleic acids (genosensors and aptasensors). I am also involved in the selection and characterization of DNA-based synthetic receptors, the so-called aptamers.



## Rebeca Miranda Castro

Surname(s): **Miranda Castro**  
Name: **Rebeca**

### Current professional situation

**Employing entity:** Universidad de Oviedo

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

**City employing entity:** Oviedo, Principality of Asturias, Spain

**Phone:** (34) 985103481

**Start date:** 20/12/2021

**Type of contract:** Civil servant

**Dedication regime:** Full time

**Performed tasks:** Teaching Chemistry in different Grades (Chemistry, Biotechnology) in Spanish and English (bilingual grades).

### Previous positions and activities

	Employing entity	Professional category	Start date
1	University of Oviedo	Profesora Ayudante Doctora	04/10/2019
2	University of Oviedo	Profesor Laboral de Sustitución	13/09/2018
3	University of Oviedo	Profesor Laboral de Interinidad	01/10/2017
4	Universidad de Oviedo	Investigador doctor	01/01/2017
5	Universidad de Oviedo	Investigador doctor	31/12/2014
6	Universidad de Oviedo	Investigador doctor	01/01/2014
7	Université Paris Diderot	Investigador doctor	01/01/2013
8	Université Paris Diderot	Investigador doctor	01/10/2010
9	Universidad de Oviedo	Investigador doctor	01/10/2009
10	Universidad de Oviedo	Estudiante de doctorado	01/10/2004
11	Universidad de Oviedo	Comité organizador de Congreso Internacional	01/10/2008

**1** **Employing entity:** University of Oviedo  
**Professional category:** Profesora Ayudante Doctora

**Start-End date:** 04/10/2019 - 19/12/2021

**Type of entity:** University

**Educational Management (Yes/No):** Yes

**Duration:** 2 years - 2 months - 16 days

**Type of contract:** Temporary employment contract

**Dedication regime:** Full time

**Performed tasks:** Teaching Chemistry in different Grades (Chemistry, Biotechnology, Industrial Chemical Engineering, and Industrial Technology Engineering) in Spanish and English (bilingual grades).

**Field of management activity:** University



- 2** **Employing entity:** University of Oviedo **Type of entity:** University  
**Professional category:** Profesor Laboral de Sustitución **Educational Management (Yes/No):** Yes  
**Start-End date:** 13/09/2018 - 03/10/2019  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Performed tasks:** Teaching Chemistry in different Grades (Chemistry, Biotechnology, Industrial Chemical Engineering, and Industrial Technology Engineering) in Spanish and English (bilingual grades).  
**Field of management activity:** University
- 3** **Employing entity:** University of Oviedo **Type of entity:** University  
**Professional category:** Profesor Laboral de Interinidad **Educational Management (Yes/No):** Yes  
**Start-End date:** 01/10/2017 - 31/08/2018 **Duration:** 11 months  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Performed tasks:** Teaching Chemistry in different Grades (Chemistry, Biotechnology, Industrial Chemical Engineering, and Industrial Technology Engineering) in Spanish and English (bilingual grades).  
**Field of management activity:** University
- 4** **Employing entity:** Universidad de Oviedo **Type of entity:** University  
**City employing entity:** Oviedo, Principality of Asturias, Spain  
**Professional category:** Investigador doctor **Educational Management (Yes/No):** Yes  
**Start-End date:** 01/01/2017 - 30/09/2017 **Duration:** 9 months  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 230102 - Biochemical analysis; 230104 - Electrochemical analysis; 230199 - Other (specify)  
**Identify key words:** Biosensors; Electrochemistry; Optician
- 5** **Employing entity:** Universidad de Oviedo **Type of entity:** University  
**City employing entity:** Oviedo, Principality of Asturias, Spain  
**Professional category:** Investigador doctor  
**Start-End date:** 31/12/2014 - 30/12/2016 **Duration:** 2 years  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 230102 - Biochemical analysis; 230104 - Electrochemical analysis  
**Identify key words:** Biosensors; Electrochemistry  
**Applicability in teaching and/or research:** Marie Curie CLARÍN-COFUND post-doctoral contract. Research as well as teaching tasks
- 6** **Employing entity:** Universidad de Oviedo **Type of entity:** University  
**City employing entity:** Oviedo, Principality of Asturias, Spain  
**Professional category:** Investigador doctor  
**Start-End date:** 01/01/2014 - 30/12/2014 **Duration:** 1 year  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 230102 - Biochemical analysis; 230104 - Electrochemical analysis; 230199 - Other (specify)



**Identify key words:** Biosensors; Electrochemistry; Optician

- 7** **Employing entity:** Université Paris Diderot **Type of entity:** University  
**City employing entity:** París, Île de France, France  
**Professional category:** Investigador doctor  
**Start-End date:** 01/01/2013 - 31/12/2013 **Duration:** 1 year  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 230104 - Electrochemical analysis; 230700 - Physical chemistry  
**Identify key words:** Biosensors; Electrochemistry; Reaction mechanisms; Bioelectrochemical
- 8** **Employing entity:** Université Paris Diderot **Type of entity:** University  
**City employing entity:** París, Île de France, France  
**Professional category:** Investigador doctor  
**Start-End date:** 01/10/2010 - 31/12/2012 **Duration:** 2 years - 3 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 230104 - Electrochemical analysis; 230700 - Physical chemistry  
**Identify key words:** Biosensors; Electrochemistry; Reaction mechanisms; Bioelectrochemical
- 9** **Employing entity:** Universidad de Oviedo **Type of entity:** University  
**City employing entity:** Oviedo, Principality of Asturias, Spain  
**Professional category:** Investigador doctor  
**Start-End date:** 01/10/2009 - 30/09/2010 **Duration:** 1 year  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 230102 - Biochemical analysis; 230104 - Electrochemical analysis; 230199 - Other (specify)  
**Identify key words:** Biosensors; Electrochemistry; Optician
- 10** **Employing entity:** Universidad de Oviedo **Type of entity:** University  
**Professional category:** Estudiante de doctorado  
**Start-End date:** 01/10/2004 - 30/09/2009 **Duration:** 5 years  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Performed tasks:** Desarrollo de un genosensor electroquímico para la detección de Legionella pneumophila
- 11** **Employing entity:** Universidad de Oviedo **Type of entity:** University  
**Professional category:** Comité organizador de Congreso Internacional  
**Start date:** 01/10/2008 **Duration:** 2 years  
**Performed tasks:** Organización del 13th International Conference on Electroanalysis (ESEAC 2010), celebrada en Gijón entre el 20 y el 24 de Junio de 2010



## Education

### University education

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

**University degree:** Higher degree

**Name of qualification:** Licenciada en Química

**City degree awarding entity:** Oviedo, Principality of Asturias, Spain

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

**Date of qualification:** 23/07/2004

**Prize:** Special award for degree

#### Doctorates

**Doctorate programme:** Análisis químico, bioquímico y estructural avanzados

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

**City degree awarding entity:** Oviedo, Principality of Asturias, Spain

**Date of degree:** 25/09/2009

**DEA awarding entity:** Universidad de Oviedo

**Date DEA was awarded:** 25/09/2006

**European doctorate:** Yes

**Date of certificate:** 25/09/2009

**Thesis title:** Sensores electroquímicos de ADN para la detección de Legionella pneumophila

**Thesis director:** Arturo José Miranda Ordieres

**Thesis co-director:** María Jesús Lobo Castañón

**Obtained qualification:** Sobresaliente cum laude

**Recognition of quality:** Yes

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

- 1 Training title:** Pratical training course on Surface Plasmon Resonance  
**Awarding entity:** Eco Chemie. Utrecht, The Netherlands      **Type of entity:** Business  
**End date:** 23/07/2010      **Duration in hours:** 40 hours
- 2 Training title:** Curso de Consultor Técnico en Gestión del Agua  
**Awarding entity:** Escuela de Organización Industrial (EOI)  
**End date:** 31/10/2007      **Duration in hours:** 500 hours





## Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French		C1	B1	B1	C1
Italian		C1	B1	B1	C1
English		C1	C1	C1	C1

## Teaching experience

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

- 1** **Project title:** Detección de biomarcadores proteicos de cáncer de páncreas mediante ensayos basados en aptámeros.  
**Type of project:** Grade (TFG)  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain  
**Student:** Inés Díaz Martínez  
**Obtained qualification:** 9.2  
**Date of reading:** 22/06/2021  
**Quality recognition:** No
- 2** **Project title:** Desarrollo de genosensores electroquímicos para la detección de ARNs largos no codificantes sobreexpresados en cáncer de próstata  
**Type of project:** Master  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**Student:** Sara Olivares Romero  
**Obtained qualification:** 9.2  
**Date of reading:** 29/07/2020  
**Quality recognition:** No
- 3** **Project title:** Estrategias de amplificación isotérmica combinadas con aptasensores: Aplicación a la detección de biomarcadores de cáncer.  
**Type of project:** Grade (TFG)  
**Co-director of thesis:** Ramón Lorenzo Gómez  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain  
**Student:** Patricia Alcázar González  
**Obtained qualification:** 9.4  
**Date of reading:** 18/02/2020  
**Quality recognition:** No
- 4** **Project title:** Determinación de parabenos en productos cosméticos  
**Type of project:** Grade (TFG)  
**Co-director of thesis:** 1  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain

**Student:** Olaya Martín Estrada  
**Obtained qualification:** 8.9  
**Date of reading:** 30/01/2020  
**Quality recognition:** No

**5** **Project title:** Empleo de medidores de glucosa comerciales (glucómetros) para la detección de ADN  
**Type of project:** Master  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**Student:** Clara Abardía Serrano  
**Obtained qualification:** 9.5  
**Date of reading:** 22/07/2019  
**Quality recognition:** No

**6** **Project title:** Detección del antígeno prostático específico (PSA) mediante aptámetros.  
**Type of project:** Grade (TFG)  
**Co-director of thesis:** Ana Díaz Fernández  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain  
**Student:** Marta Canzobre Silva  
**Obtained qualification:** 9.5  
**Date of reading:** 18/07/2019  
**Quality recognition:** No

**7** **Project title:** Nuevas herramientas para el diagnóstico y seguimiento de cáncer de próstata basadas en aptámeros.  
**Type of project:** Grade (TFG)  
**Co-director of thesis:** Ramón Lorenzo Gómez  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain  
**Student:** Bárbara Díaz Terenti  
**Obtained qualification:** 9.1  
**Date of reading:** 18/07/2019  
**Quality recognition:** No

**8** **Project title:** Detección de gluten mediante biosensores innovadores para mejorar la seguridad alimentaria  
**Type of project:** Grade (TFG)  
**Co-director of thesis:** Noemí de-los-Santos Álvarez  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain  
**Student:** Lucía Pérez Fuentes  
**Obtained qualification:** 9.5  
**Date of reading:** 17/07/2018  
**Quality recognition:** No

**9** **Project title:** Control de Salmonella en alimentos mediante una plataforma sensora basada en su material genético  
**Type of project:** Grade (TFG)  
**Co-director of thesis:** María Jesús Lobo Castañón  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain  
**Student:** Inés García Rodríguez





**Obtained qualification:** 9.6  
**Date of reading:** 17/07/2017  
**Quality recognition:** No

- 10** **Project title:** Diseño y optimización de fases sensoras para la determinación electroquímica de ADN de bacterias patógenas  
**Type of project:** Master  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**Student:** Raquel Sanchez Salcedo  
**Obtained qualification:** 9.1  
**Date of reading:** 21/07/2016  
**Quality recognition:** No
- 11** **Project title:** Sensor electroquímico para detección de Organismos Genéticamente Modificados: detección do promotor P35S  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** José Ribeiro Dos Santos Junior  
**Entity:** Universidade de Piauí (Brasil) **Type of entity:** University  
**Student:** Suely Moura Melo  
**Obtained qualification:** Aprobado  
**Date of reading:** 21/03/2016  
**Quality recognition:** No
- 12** **Project title:** Desarrollo de métodos bioelectroanalíticos basados en el empleo de liposomas como portadores de marcas redox  
**Type of project:** Master  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**Student:** Jérémy Onofre  
**Obtained qualification:** 5.0  
**Date of reading:** 24/07/2015  
**Quality recognition:** No
- 13** **Project title:** Reconocimiento molecular mediante aptámeros de péptidos inmunotóxicos de gluten  
**Type of project:** Master  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**Student:** Sandra González García  
**Obtained qualification:** 8.2  
**Date of reading:** 23/07/2015  
**Quality recognition:** No
- 14** **Project title:** Caracterización de aptámeros específicos contra la proteína alergénica del trigo, gliadina. Determinación de la constante de afinidad  
**Type of project:** Minor thesis  
**Co-director of thesis:** Noemí de los Santos Álvarez  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**Student:** Laura López López  
**Obtained qualification:** Sobresaliente  
**Date of reading:** 27/06/2014  
**Quality recognition:** No



## Other activities/achievements not included above

- 1** **Description of the activity:** Colaboración Docente, como Personal Investigador Posdoctoral Contratado, en la asignatura "Especialización en técnicas analíticas avanzadas en laboratorios de investigación" del Máster Universitario en Ciencias Analíticas y Bioanalíticas de la Universidad de Oviedo (16 horas)  
**City of activity:** Oviedo, Spain  
**Organising entity:** Universidad de Oviedo **Type of entity:** University  
**End date:** 30/06/2017
- 2** **Description of the activity:** Colaboración Docente, como Personal Investigador Posdoctoral Contratado, en la asignatura "Experimentación en Química Analítica I" del Grado en Química (Bilingüe) de la Universidad de Oviedo (29 horas en inglés)  
**City of activity:** Oviedo, Spain  
**Organising entity:** Universidad de Oviedo **Type of entity:** University  
**End date:** 30/06/2017
- 3** **Description of the activity:** Colaboración Docente, como Personal Investigador Posdoctoral Contratado, en la asignatura "Química Analítica III" del Grado en Química (Bilingüe) de la Universidad de Oviedo (15 horas en inglés)  
**City of activity:** Oviedo, Spain  
**Organising entity:** Universidad de Oviedo **Type of entity:** University  
**End date:** 30/06/2017
- 4** **Description of the activity:** Co-supervisor of 1 PhD student from China, Ling Zhang (Sino-Europe Joint Doctoral Promotion of the Chinese Academy of Sciences, 2012). Stage of 1 year  
**City of activity:** Paris, France  
**Organising entity:** Université Paris Diderot **Type of entity:** University  
**End date:** 31/01/2013
- 5** **Description of the activity:** Co-supervisor of 1 PhD student from Iran, Zahra Nasri (University of Isfahan). Stage of 6 months  
**City of activity:** Paris, France  
**Organising entity:** Université Paris Diderot **Type of entity:** University  
**End date:** 31/10/2012



## 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:** Atrapando péptidos causantes de la celiacía con aptámeros: nuevas estrategias de diagnóstico y detección de gluten en alimentos [FUO-482-19]

**Entity where project took place:** University of Oviedo **Type of entity:** University

**City of entity:** Oviedo, Principality of Asturias, Spain

**Name principal investigator (PI, Co-PI....):** María Jesús Lobo Castañón; Noemí de los Santos Álvarez; Rebeca Miranda Castro; Luis Rodrigo Saez; Arturo J Miranda Ordieres

**Funding entity or bodies:** Asociación de Celíacos y Sensibles al Gluten **Type of entity:** Associations and Groups

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

**Start-End date:** 01/01/2021 - 16/12/2022

**Total amount:** 18.000 €
- 2** **Name of the project:** Red de sensores y biosensores electroquímicos. RED2018-102412-T

**Entity where project took place:** University of Oviedo **Type of entity:** University

**City of entity:** Oviedo, Principality of Asturias, Spain

**Name principal investigator (PI, Co-PI....):** María Encarnación Lorenzo Abad; María Jesús Lobo Castañón

**Funding entity or bodies:** Ministerio de Ciencia, Innovación y Universidades

**Start-End date:** 01/01/2020 - 31/12/2021
- 3** **Name of the project:** NUEVAS ESTRATEGIAS DE DIAGNÓSTICO PARA LA DETECCIÓN TEMPRANA DEL ADENOCARCINOMA DUCTAL DE PÁNCREAS [MCIU-19-RTI2018-095756-B-I00]

**Identify key words:** Biosensors; Electrochemistry; Bioinstrumentation

**Type of project:** Basic research (including archaeological digs, etc) **Geographical area:** National

**Degree of contribution:** Researcher

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

**City of entity:** Oviedo, Principality of Asturias, Spain

**Name principal investigator (PI, Co-PI....):** María Jesús Lobo Castañón; Noemí de los Santos Álvarez; ALBERTO MIYAR DE LEON; JUAN RAMON DE LOS TOYOS GONZALEZ; LORENA SOLER GARCIA; Rebeca Miranda Castro; Ana Díaz Fernández; Ramón Lorenzo Gómez; Raquel Sánchez Salcedo

**Nº of researchers:** 9

**Funding entity or bodies:** Ministerio de Ciencia e Innovación. Investigación **Type of entity:** AGENCIA ESTATAL DE INVESTIGACION (Mº. ECON. IND.)

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

**Type of participation:** Team member

**Start-End date:** 01/01/2019 - 31/12/2021**Duration:** 3 years**Dedication regime:** Full time

- 4** **Name of the project:** Ayudas a organismos públicos de investigación para apoyar la actividad que desarrollen sus grupos de investigación en el Principado de Asturias en el período 2018-2020 - GEUO (FC-GRUPIN-IDI/2018/000217)

**Identify key words:** Biosensors; Electrochemistry**Type of project:** Basic research (including archaeological digs, etc)**Geographical area:** Regional**Degree of contribution:** Researcher**Entity where project took place:** Universidad de Oviedo**Type of entity:** University**City of entity:** Oviedo, Principality of Asturias, Spain**Name principal investigator (PI, Co-PI...):** María Jesús Lobo Castañón; Noemí de los Santos Álvarez; Pilar Arias Abrodo; Luis Barneo Serra; Rebeca Miranda Castro; Ana Díaz Fernández; Ramón Lorenzo Gómez; Raquel Sánchez Salcedo**Nº of researchers:** 8**Funding entity or bodies:**

FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA (FICYT)

**Type of participation:** Team member**Start-End date:** 01/01/2018 - 31/12/2020**Duration:** 3 years**Dedication regime:** Full time

- 5** **Name of the project:** SELECCION Y MODIFICACION DE APTAMEROS COMO RECEPTORES ESPECIFICOS PARA LA DETECCION DE BIOMARCADORES TUMORALES SERICOS (MINECO-16-CTQ2015-63567-R)

**Identify key words:** Biosensors; Electrochemistry; Bioinstrumentation**Type of project:** Basic research (including archaeological digs, etc)**Geographical area:** National**Degree of contribution:** Researcher**Entity where project took place:** Universidad de Oviedo**Type of entity:** University**City of entity:** Oviedo, Principality of Asturias, Spain**Name principal investigator (PI, Co-PI...):** María Jesús Lobo Castañón; Noemí de los Santos Álvarez; Arturo José Miranda Ordieres; María José González Álvarez; Rebeca Miranda Castro; Susana Barreda García**Nº of researchers:** 6**Funding entity or bodies:**

MINISTERIO DE ECONOMIA Y COMPETITIVIDAD

**City funding entity:** Spain**Type of participation:** Team member**Start-End date:** 01/01/2016 - 31/12/2018**Duration:** 3 years**Dedication regime:** Full time

- 6** **Name of the project:** Grupo de Bioanálisis alimentario (FC-15-GRUPIN14-025)

**Identify key words:** Biosensors; Electrochemistry; Food technology**Type of project:** Basic research (including archaeological digs, etc)**Geographical area:** Regional**Degree of contribution:** Researcher**Entity where project took place:** Universidad de Oviedo**Type of entity:** University



**City of entity:** Oviedo, Principality of Asturias, Spain

**Name principal investigator (PI, Co-PI....):** María Jesús Lobo Castañón; Noemí de los Santos Álvarez; Arturo José Miranda Ordieres; Rebeca Miranda Castro; Pilar Arias Abrodo; María Dolores Gutierrez Álvarez; María José González Álvarez; José Ramón Barreira Rodríguez

**Nº of researchers:** 8

**Funding entity or bodies:**

FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA (FICYT)

**Type of participation:** Team member

**Start-End date:** 31/12/2014 - 31/12/2017

**Duration:** 3 years

**Dedication regime:** Full time

**7 Name of the project:** Aptamers against immunotoxic peptides from gluten and soy: synthetic receptors in the development of sensors for food allergens

**Identify key words:** Biosensors; Electrochemistry; Food technology

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

**Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Oviedo

**Type of entity:** University

**City of entity:** Oviedo, Principality of Asturias, Spain

**Name principal investigator (PI, Co-PI....):** Rebeca Miranda Castro

**Nº of researchers:** 1

**Funding entity or bodies:**

FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA (FICYT)

**Type of participation:** Co-ordinator

**Start-End date:** 31/12/2014 - 30/12/2016

**Duration:** 2 years

**Total amount:** 18.000 €

**Relevant results:** Gestión económica y científica del proyecto

**Dedication regime:** Full time

**8 Name of the project:** Monitoring Genetically Modified Organisms in Food and Feed by Innovative Biosensor Approaches FP7-PEOPLE-2013-IRSES 612545

**Identify key words:** Optician

**Identify key words:** Biosensors; Voltammetric

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

**Geographical area:** Non EU International

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Oviedo

**Type of entity:** University

**City of entity:** Oviedo, Principality of Asturias, Spain

**Name principal investigator (PI, Co-PI....):** Cristina Delerue Matos; María Jesús Lobo Castañón

**Nº of researchers:** 46

**Funding entity or bodies:**

European Commission - 7th Framework Programme

**Type of participation:** Team member

**Name of the programme:** FP7-PEOPLE-2013-IRSES (International Research Staff Exchange Scheme) grant

**Start-End date:** 01/10/2013 - 30/09/2015

**Duration:** 2 years



**Relevant results:** Diseño de genosensores electroquímicos para el cribado y para la detección específica de maíz MON810 y soja GTS40-3-2

**Dedication regime:** Part time

**9 Name of the project:** Nanopartículas de Au y de semiconductores como marcadores para detección electroquímica y por espectroscopía de plasmón de superficie (SPR) en bioensayos con sondas de ácidos nucleicos

**Identify key words:** Optician

**Identify key words:** Optician

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

**Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Oviedo

**Type of entity:** University

**City of entity:** Oviedo, Principality of Asturias, Spain

**Name principal investigator (PI, Co-PI....):** Paulino Tuñón Blanco

**Nº of researchers:** 8

**Funding entity or bodies:**

FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA (FICYT)

**Type of participation:** Team member

**Code according to the funding entity:** IB08-087

**Start-End date:** 01/12/2008 - 31/12/2010

**Duration:** 2 years - 1 month

**Relevant results:** Se han explorado diferentes estrategias para utilizar nanopartículas de oro como marcadores en el desarrollo de geno y aptasensores electroquímicos y de SPR

**Dedication regime:** Full time

**Applicant's contribution:** Realización de ensayos con SPR

**10 Name of the project:** IDI/2018/0000217

**Identify key words:** Biosensors; Electrochemistry; Bioinstrumentation

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

**Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Oviedo

**Type of entity:** University

**City of entity:** Oviedo, Principality of Asturias, Spain

**Name principal investigator (PI, Co-PI....):** María Jesús Lobo Castañón; Noemí de los Santos Álvarez; Rebeca Miranda Castro; Pilar Arias Abrodo; Luis Barneo Serra; Ana Díaz Fernández; Ramón Lorenzo Gómez; Raquel Sánchez Salcedo

**Nº of researchers:** 8

**Funding entity or bodies:**

FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA (FICYT)

**Type of participation:** Team member

**Duration:** 3 years

**Dedication regime:** Full time



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

- 1** **Name of the project:** Selección de aptámeros para dos dianas definidas por LincBiotech  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** María Jesús Lobo Castañón  
**Nº of researchers:** 3  
**Start date:** 02/07/2021 **Duration:** 5 months  
**Total amount:** 13.572 €
  
- 2** **Name of the project:** Contrato de trabajo para la realización de un proyecto de investigación; (Proyecto FC-15-GRUPIN14-025)  
**Identify key words:** Biosensors  
**Type of project:** Basic research (including archaeological digs, etc) **Entity where project took place:** Universidad de Oviedo  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain  
**Name principal investigator (PI, Co-PI....):** María Jesús Lobo Castañón  
**Start date:** 01/01/2017 **Duration:** 9 months  
**Identify key words:** Biosensors
  
- 3** **Name of the project:** Contrato de trabajo para la realización de un proyecto de investigación; número de contrato: E-33-2014-0105426 (Proyecto MINECO-13-CTQ2012-31157)  
**Identify key words:** Biosensors  
**Type of project:** Basic research (including archaeological digs, etc) **Entity where project took place:** Universidad de Oviedo  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain  
**Name principal investigator (PI, Co-PI....):** María Jesús Lobo Castañón  
**Start date:** 01/07/2014 **Duration:** 6 months  
**Identify key words:** Biosensors
  
- 4** **Name of the project:** Contrato de trabajo para la realización de un proyecto de investigación; número de contrato: E-33-2014-0005841 (Proyecto MICINN-08-CTQ 2008-02429)  
**Identify key words:** Biosensors  
**Type of project:** Basic research (including archaeological digs, etc) **Entity where project took place:** Universidad de Oviedo  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain  
**Name principal investigator (PI, Co-PI....):** María Jesús Lobo Castañón  
**Start date:** 01/01/2014 **Duration:** 6 months  
**Identify key words:** Biosensors



- 5** **Name of the project:** ECTASE ANR 2010 BLAN 1517 02 "Rational design of a sensitive and enantiospecific electrocatalytically-amplified aptasensor for amphetaminederivatives drugs" (contract number 363802)  
**Identify key words:** Biosensors; Optician  
**Type of project:** Basic research (including archaeological digs, etc) **Entity where project took place:** Université Paris Diderot  
**Degree of contribution:** Researcher  
**Entity where project took place:** Université Paris Diderot **Type of entity:** University  
**City of entity:** Paris, France  
**Name principal investigator (PI, Co-PI....):** Benoit Limoges  
**Start date:** 01/10/2012 **Duration:** 1 year - 3 months  
**Identify key words:** Biosensors; Electroanalysis
- 6** **Name of the project:** Contrato de trabajo para la realización de un proyecto de investigación; número de contrato: E-33-2009-0183337  
**Identify key words:** Biosensors; Optician  
**Type of project:** Basic research (including archaeological digs, etc) **Entity where project took place:** Universidad de Oviedo  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Oviedo, Principality of Asturias, Spain  
**Name principal investigator (PI, Co-PI....):** Paulino Tuñón Blanco  
**Start date:** 01/10/2009 **Duration:** 1 year  
**Identify key words:** Biosensors; Optician

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Rossella Svirgelj; Nicolo Dossi; Rosanna Toniolo; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón. Selection of Anti-gluten DNA Aptamers in a Deep Eutectic Solvent. ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. 57, pp. 12850 - 12854. Wiley, 2018. ISSN 1433-7851  
**DOI:** <https://doi.org/10.1002/anie.201804860>  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY  
**Impact index in year of publication:** 12.102 **Journal in the top 25%:** Yes  
**Position of publication:** 14 **No. of journals in the cat.:** 171  
**Relevant publication:** Yes
- 2** Ramón Lorenzo Gómez; Alfonso Casero Álvarez; Rebeca Miranda Castro; Marcos García Ocaña; Juan R de los Toyos; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón. A competitive assay for the detection of a 16-mer peptide from  $\alpha 1$  chain of human collagen XI. Talanta. 240, pp. 123196. Elsevier, 2022. ISSN 0039-9140  
**DOI:** 10.1016/j.talanta.2021.123196  
**Type of production:** Scientific paper **Format:** Journal



**Impact source:** ISI

**Impact index in year of publication:** 6.057

**Position of publication:** 12

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

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

**No. of journals in the cat.:** 87

- 3** Ramón Lorenzo Gómez; Rebeca Miranda Castro; Juan R de los Toyos; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Aptamers targeting a tumor-associated extracellular matrix component: the human mature collagen XI $\alpha$ 1. ANALYTICA CHIMICA ACTA. 1189, pp. 339206. Elsevier, 2022. ISSN 0003-2670

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

**Impact index in year of publication:** 6.558

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

**Position of publication:** 10

**No. of journals in the cat.:** 83

- 4** Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón; Pedro Estrela. Impedimetric aptamer-based glycan PSA score for discrimination of prostate cancer from other prostate diseases. Biosensors and Bioelectronics. 175, pp. 112872. Elsevier, 2021. ISSN 0956-5663

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

**Impact index in year of publication:** 10.618

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

**Position of publication:** 3

**No. of journals in the cat.:** 83

- 5** Raquel Sánchez Salcedo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Dual electrochemical genosensor for early diagnosis of prostate cancer through lncRNAs detection. Biosensors and Bioelectronics. 192, pp. 113520. Elsevier, 2021. ISSN 0956-5663

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

**Impact index in year of publication:** 10.618

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

**Position of publication:** 3

**No. of journals in the cat.:** 83

- 6** Rebeca Miranda Castro; Noemí de los Santos Álvarez. Engaging in analytical chemistry in review classes: contests based on TV shows as fun evaluable checkpoints. Analytical and Bioanalytical Chemistry. 412 - 24, pp. 5891 - 5896. Springer, 2020. ISSN 1618-2642

**DOI:** 10.1007/s00216-020-02495-x

**Type of production:** Scientific paper

**Format:** Journal

**Corresponding author:** No

**Impact source:** ISI

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

**Impact index in year of publication:** 3.637

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

**Position of publication:** 18

**No. of journals in the cat.:** 86

- 7** Juliana Beatriz Sousa; Joilson Ramos Jesus; Luis C Silva; Clara Pereira; Noemí de los Santos Álvarez; Rosana Fonseca; Rebeca Miranda Castro; Cristina Delerue Matos; José Ribeiro Santos Junior; María Fátima Barroso. Fe<sub>3</sub>O<sub>4</sub>@Au nanoparticles-based magnetoplatform for the HMGA maize endogenous gene electrochemical genosensing. Talanta. 206 - 120220, Elsevier, 2020. ISSN 0039-9140

**DOI:** 10.1016/j.talanta.2019.120220

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

**Impact index in year of publication:** 5.339

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

**Position of publication:** 11

**No. of journals in the cat.:** 86



- 8** Ana Díaz Fernández; Rebeca Miranda Castro; Natalia Díaz; Dimas Suárez; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón. Aptamers targeting protein-specific glycosylation in tumor biomarkers: general selection, characterization and structural modeling. *Chemical Science*. 11 - 35, pp. 9402 - 9413. 2020.  
**Type of production:** Scientific paper **Format:** Journal
- 9** Ana Díaz Fernández; Rebeca Miranda Castro; Pedro Estrela; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón. Catching the Sugars: Electrochemical Aptasensors for the Detection of Cancer-Related Glycosylation Changes in Prostate-Specific Antigen. *Proceedings*. 60 - 1, pp. 47. 2020.  
**Type of production:** Scientific paper **Format:** Journal
- 10** Raquel Sánchez Salcedo; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón. Electrochemical Platforms for Solid-Phase Isothermal Amplification and Detection of Bacterial Genome. *Proceedings*. 60 - 1, pp. 23. 2020.  
**Type of production:** Scientific paper **Format:** Journal
- 11** Clara Abardía Serrano; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón. Giving New Uses to Glucose Meters: Detection of Prostate Cancer. *Proceedings*. 60 - 1, pp. 24. 2020.  
**Type of production:** Scientific paper **Format:** Journal
- 12** Ramón Lorenzo Gómez; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón. Improving the Analytical Performance of Weak Aptamers: DNA Isothermal Amplification Approaches. *Proceedings*. 60 - 1, pp. 26. 2020.  
**Type of production:** Scientific paper **Format:** Journal
- 13** Clara Abardía Serrano; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. New Uses for the Personal Glucose Meter: Detection of Nucleic Acid Biomarkers for Prostate Cancer Screening. *Sensors*. 19, pp. 5514. MDPI, 2020.  
**DOI:** 10.3390/s20195514  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION  
**Impact index in year of publication:** 3.275 **Journal in the top 25%:** Yes  
**Position of publication:** 15 **No. of journals in the cat.:** 64
- 14** Ramón Lorenzo Gómez; Daniel González Robles; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. On the Electrochemical Detection of Alpha-Fetoprotein Using Aptamers: DNA Isothermal Amplification Strategies to Improve the Performance of Weak Aptamers. *Biosensors*. 10 - 5, MDPI, 2020. ISSN 2079-6374  
**DOI:** DOI:10.3390/bios10050046  
**Type of production:** Scientific paper **Format:** Journal  
**Relevant results:** No impact factor for the moment
- 15** Rossella Savigelj; Nicolo Dossi; Stefania Pizzolato; Rosanna Toniolo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Truncated aptamers as selective receptors in a gluten sensor supporting direct measurement in deep eutectic solvent. *Biosensors and Bioelectronics*. Elsevier, 2020. ISSN 0956-5663  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Impact index in year of publication:** 9.518 **Journal in the top 25%:** Yes  
**Position of publication:** 1 **No. of journals in the cat.:** 84

- 16** Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Eloy Fernández Rodríguez; María Jesús Lobo Castañón. Focusing aptamer selection on the glycan structure of prostate-specific antigen: Toward more specific detection of prostate cancer. *Biosensors and Bioelectronics*. 128, pp. 83 - 90. Oviedo, Principality of Asturias(Spain): Elsevier, 2019. ISSN 0956-5663  
**DOI:** <https://doi.org/10.1016/j.bios.2018.12.040>  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 8.037  
**Position of publication:** 1  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 84
- 17** Raquel Sánchez Salcedo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. On-gold recombinase polymerase primer elongation for the electrochemical detection of bacterial genome: mechanism insights and influencing factors. *ChemElectroChem*. 6, pp. 793 - 800. Oviedo, Principality of Asturias(Spain): Wiley, 2019.  
**DOI:** <https://doi.org/10.1002/celec.201801208>  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.975  
**Position of publication:** 9  
**Format:** Journal  
**Category:** Electrochemistry  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 26
- 18** Ramón Lorenzo Gómez; Noelia Fernández Alonso; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Unravelling the lipocalin 2 interaction with aptamers: May rolling circle amplification improve their functional affinity?. *Talanta*. 197, pp. 406 - 412. Elsevier, 2019. ISSN 0039-9140  
**DOI:** <https://doi.org/10.1016/j.talanta.2019.01.057>  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 4.916  
**Position of publication:** 11  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 84
- 19** Alexandra Plácido; Clara Pereira; Alexandra Guedes; M. Fátima Barroso; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Cristina Delerue Matos. Electrochemical genoassays on gold-coated magnetic nanoparticles to quantify genetically modified organisms (GMOs) in food and feed as GMO percentage. *Biosensors and Bioelectronics*. 110, pp. 147 - 154. Elsevier, 2018. ISSN 0956-5663  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 9.518  
**Position of publication:** 1  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 84
- 20** Susana Barrera García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Sequence-specific electrochemical detection of enzymatic amplification products of Salmonella genome on ITO electrodes improves pathogen detection to the single copy level. *Sensors and Actuators B*. Elsevier, 2018.  
**DOI:** <https://doi.org/10.1016/j.snb.2018.04.133>  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 5.773  
**Position of publication:** 6  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 84





- 21** Suely Moura Melo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo José Miranda Ordieres; Jose Ribeiro dos Santos Junior; Rosana A. da Silva Fonseca; María Jesús Lobo Castañón. A quantitative PCR - electrochemical genosensor test for the screening of biotech crops. *Sensors*. 17 - 4, pp. 881. MDPI, 2017.  
**DOI:** 10.3390/s17040881  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.677  
**Position of publication:** 10  
**Format:** Journal  
**Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 58
- 22** Laura López López; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo José Miranda Ordieres; María Jesús Lobo Castañón. Disposable electrochemical aptasensor for gluten determination in food. *Sensors and Actuators B*. 241, pp. 522 - 527. Elsevier, 2017.  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 5.401  
**Position of publication:** 6  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 76
- 23** Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo José Miranda Ordieres; María Jesús Lobo Castañón. Solid-phase helicase dependent amplification and electrochemical detection of Salmonella on highly stable oligonucleotide-modified ITO electrodes. *Chemical Communications*. 53, pp. 9721 - 9724. Royal Society of Chemistry, 2017. ISSN 1359-7345  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 6.319  
**Position of publication:** 23  
**Format:** Journal  
**Category:** Chemistry (miscellaneous)  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 166
- 24** Rebeca Miranda Castro; Raquel Sánchez Salcedo; Beatriz Suárez Álvarez; Noemí de los Santos Álvarez; Arturo José Miranda Ordieres; María Jesús Lobo Castañón. Thioaromatic DNA monolayers for target-amplification-free electrochemical sensing of environmental pathogenic bacteria. *Biosensors and Bioelectronics*. 92, pp. 162 - 170. Elsevier, 2017. ISSN 0956-5663  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 7.78  
**Position of publication:** 2  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 76
- 25** Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo José Miranda Ordieres; María Jesús Lobo Castañón. Comparison of isothermal helicase dependent amplification and PCR for the detection of Mycobacterium tuberculosis by an electrochemical genomagnetic assay. *Analytical and Bioanalytical Chemistry*. 408 - 30, pp. 8603 - 8610. Springer, 2016. ISSN 1618-2642  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.431  
**Position of publication:** 16  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 76
- 26** Lylian Challier; Rebeca Miranda Castro; Bertrand Barbe; Claire Fave; Benoit Limoges; Eric Peyrin; Corinne Ravelet; Emmanuelle Fiore; Pierre Labbé; Liliane Coche Guérente; Eric Ennifar; Guillaume Bec; Philippe Dumas; François Mavré; Vincent Noël. Multianalytical Study of the Binding between a Small Chiral Molecule and a DNA Aptamer: Evidence for Asymmetric Steric Effect upon 3'- versus 5'-End Sequence Modification. *Analytical Chemistry*. 88 - 23, pp. 11963 - 11971. American Chemical Society, 2016. ISSN 0003-2700



**Type of production:** Scientific paper

**Total no. authors:** 15

**Impact source:** ISI

**Impact index in year of publication:** 6.32

**Position of publication:** 4

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

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

**No. of journals in the cat.:** 76

**Relevant results:** Notes: L. Challier and R. Miranda-Castro, these authors contributed equally to this work

- 27** Sonia Amaya González; Laura López López; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo José Miranda Ordieres; María Jesús Lobo Castañón. AFFINITY OF APTAMERS BINDING 33-MER GLIADIN PEPTIDE AND GLUTEN PROTEINS: INFLUENCE OF IMMOBILIZATION AND LABELING TAGS. *Analytica Chimica Acta*. 873, pp. 63 - 70. Elsevier, 2015. ISSN 0003-2670

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 4.712

**Position of publication:** 8

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

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

**No. of journals in the cat.:** 75

- 28** Suely Moura Melo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; José Ribeiro Dos Santos Junior; Rosana A. da Silva Fonseca; María Jesús Lobo Castañón. Targeting Helicase-Dependent Amplification Products with an Electrochemical Genosensor for Reliable and Sensitive Screening of Genetically Modified Organisms. *Analytical Chemistry*. 87 - 16, pp. 8547 - 8554. American Chemical Society, 2015. ISSN 0003-2700

**DOI:** 10.1021/acs.analchem.5b02271

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.886

**Position of publication:** 4

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

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

**No. of journals in the cat.:** 75

- 29** Ling Zhang; Rebeca Miranda Castro; Claire Stines Chaumeil; Nicolas Mano; Guobao Xu; François Mavré; Benoit Limoges. Heterogeneous Reconstitution of the PQQ-Dependent Glucose Dehydrogenase Immobilized on an Electrode: A Sensitive Strategy for PQQ Detection Down to Picomolar Levels. *Analytical Chemistry*. 86, pp. 2257 - 2267. American Chemical Society, 2014. ISSN 0003-2700

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.636

**Position of publication:** 4

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

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

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

**Relevant results:** Notes: L. Zhang and R. Miranda-Castro, these authors contributed equally to this work

- 30** María José González Álvarez; Elena Pérez Ruiz; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J Miranda Ordieres; María Jesús Lobo Castañón. Effect of the tags and labels on the performance of enzyme-amplified electrochemical genomagnetic assays. *Electroanalysis*. 25 - 1, pp. 147 - 153. Wiley, 2013. ISSN 1040-0397

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.502

**Position of publication:** 29

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

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

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

- 31** Lylian Challier; Rebeca Miranda Castro; Damien Marchal; Vincent Noel; François Mavré; Benoit Limoges. Kinetic Rotating Droplet Electrochemistry: a Simple and Versatile Method for Reaction Progress Kinetic Analysis in Microliter Volumes. *Journal of American Chemical Society*. 135 - 38, pp. 14215 - 14218. American Chemical Society, 2013. ISSN 0002-7863

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 11.444

**Position of publication:** 10

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY

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

**No. of journals in the cat.:** 148

**Relevant results:** Note: L. Challier and R. Miranda-Castro, these authors contributed equally to this work

- 32** Rebeca Miranda Castro; Damien Marchal; Benoit Limoges; François Mavr . Homogeneous electrochemical monitoring of exonuclease III activity and its application to nucleic acid testing by target recycling. *Chemical Communications*. 48, pp. 8772 - 8774. Royal Chemical Society, 2012. ISSN 1359-7345

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 6.378

**Position of publication:** 19

**Format:** Journal

**Category:** Chemistry (miscellaneous)

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

**No. of journals in the cat.:** 152

- 33** Fabien Durand; Benoit Limoges; Nicolas Mano; Fran ois Mavr ; Rebeca Miranda Castro; Jean Michel Sav ant. Effect of Substrate Inhibition and Cooperativity on the Electrochemical Responses of Glucose Dehydrogenase. Kinetic Characterization of Wild and Mutant Types. *Journal of American Chemical Society*. 133 - 32, pp. 12801 - 12809. American Chemical Society, 2011. ISSN 0002-7863

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 9.907

**Position of publication:** 11

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY

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

**No. of journals in the cat.:** 154

**Relevant results:** Note: a policy of alphabetical authorship order is systematically followed in the group of Profesor J.M. Sav ant

- 34** Serena Laschi; Rebeca Miranda Castro; Eva Gonz lez Fern ndez; Ilaria Palchetti; Fr d ric Reymond; Joel S Rossier; Giovanna Marrazza. A new gravity-driven microfluidic-based electrochemical assay coupled to magnetic beads for nucleic acid detection. *Electrophoresis*. 31 - 2, pp. 3727 - 3736. 2010. ISSN 0173-0835

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.57

**Position of publication:** 12

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

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

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

- 35** Rebeca Miranda Castro; Mar a Jes s Lobo Casta n; Arturo J Miranda Ordieres; Paulino Tu n Blanco. Comparative study of HRP, a peroxidase-mimicking DNAzyme, and ALP as enzyme labels in developing of electrochemical genosensors for pathogenic bacteria. *Electroanalysis*. 22 - 12, pp. 1297 - 1305. 2010. ISSN 1040-0397

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.72

**Position of publication:** 22

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

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

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

- 36** Rebeca Miranda Castro; Noem  de-los-Santos  lvarez; Mar a Jes s Lobo Casta n; Arturo J Miranda Ordieres; Paulino Tu n Blanco. PCR-coupled electrochemical sensing of *Legionella pneumophila*. *BIOSENSORS & BIOELECTRONICS*. 24, pp. 2390 - 2396. Elsevier, 2009. ISSN 0956-5663

**Type of production:** Scientific paper

**Impact source:** ISI

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

**Impact index in year of publication:** 5.43  
**Position of publication:** 2

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 70

- 37** Rebeca Miranda Castro; María Jesús Lobo Castañón; Arturo J Miranda Ordieres; Paulino Tuñón Blanco. Stem-Loop DNA Probes for the Voltammetric Determination of Legionella pneumophila on Disposable Screen-Printed Gold Electrodes. *Electroanalysis*. 21, pp. 267 - 273. 2009. ISSN 1040-0397  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Impact index in year of publication:** 2.63 **Journal in the top 25%:** No  
**Position of publication:** 18 **No. of journals in the cat.:** 70
- 38** Rebeca Miranda Castro; Patricia de-los-Santos Álvarez; María Jesús Lobo Castañón; Arturo J Miranda Ordieres; Paulino Tuñón Blanco. Hairpin-DNA Probe for Enzyme-Amplified Electrochemical Detection of Legionella pneumophila. *Analytical Chemistry*. 79, pp. 4050 - 4055. 2007. ISSN 0003-2700  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Impact index in year of publication:** 5.29 **Journal in the top 25%:** Yes  
**Position of publication:** 2 **No. of journals in the cat.:** 70
- 39** Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Amperometric detection of NADH using carbon-based electrodes. *Laboratory Methods in Dynamic Electroanalysis*. Chapter 7, Elsevier, 2019. ISBN 9780128159323  
**DOI:** 10.1016/B978-0-12-815932-3-00007-3  
**Type of production:** Book chapter **Format:** Book
- 40** Noemí de los Santos Álvarez; Rebeca Miranda Castro; María Jesús Lobo Castañón. Impedimetric aptasensor for determination of antibiotic neomycin B. *Laboratory Methods in Dynamic Electroanalysis*. Chapter 11, Elsevier, 2019. ISBN 9780128159323  
**DOI:** 10.1016/B978-0-12-815932-3-00011-5  
**Type of production:** Book chapter **Format:** Book
- 41** Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Aptamer-based magnetoassay for gluten determination. *Laboratory Methods in Dynamic Electroanalysis*. Chapter 22, Elsevier, 2019. ISBN 9780128159323  
**DOI:** 10.1016/B978-0-12-815932-3-00022-X  
**Type of production:** Book chapter **Format:** Book
- 42** Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Characterization of aptamer-ligand complexes. *Aptamers for Analytical Applications: Affinity Optimization and Method Design*. Chapter 6, Wiley, 2019.  
**Type of production:** Book chapter **Format:** Book
- 43** Rebeca Miranda Castro; María Jesús Lobo Castañón. Determination of ethyl alcohol in beverages using an electrochemical enzymatic sensor. *Laboratory Methods in Dynamic Electroanalysis*. Chapter 18, Elsevier, 2019. ISBN 9780128159323  
**DOI:** 10.1016/B978-0-12-815932-3-00018-8  
**Type of production:** Book chapter **Format:** Book



- 44** Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Aptamers as synthetic receptors for food quality and safety control. COMPREHENSIVE ANALYTICAL CHEMISTRY SERIES: BIOSENSORS FOR SUSTAINABLE FOOD: NEW OPPORTUNITIES AND TECHNICAL CHALLENGES. 74 - Chapter 7, Elsevier B.V., 2016. ISBN 9780444635792  
**Type of production:** Book chapter **Format:** Book
- 45** Ramón Lorenzo Gómez; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Bioanalytical methods for circulating extracellular matrix-related proteins: new opportunities in cancer diagnosis. Analytical and Bioanalytical Chemistry. Springer, 2021. ISSN 1618-2642  
**DOI:** 10.1007/s00216-021-03416-2  
**Type of production:** Review **Format:** Journal  
**Corresponding author:** No  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Impact index in year of publication:** 4.142 **Journal in the top 25%:** No  
**Position of publication:** 22 **No. of journals in the cat.:** 83
- 46** Ana Díaz Fernández; Ramón Lorenzo Gómez; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Electrochemical aptasensors for cancer diagnosis in biological fluids – A review. ANALYTICA CHIMICA ACTA. 1124, pp. 1 - 19. Elsevier, 2020. ISSN 0003-2670  
**DOI:** doi.org/10.1016/j.aca.2020.04.022  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Impact index in year of publication:** 5.256 **Journal in the top 25%:** Yes  
**Position of publication:** 10 **No. of journals in the cat.:** 84
- 47** Rebeca Miranda Castro; Ilaria Palchetti; Noemí de los Santos Álvarez. The Translational Potential of Electrochemical DNA-Based Liquid Biopsy. FRONTIERS IN CHEMISTRY. 8 - 143, 2020. ISSN 2296-2646  
**DOI:** 10.3389/fchem.2020.00143  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY  
**Impact index in year of publication:** 3.782 **Journal in the top 25%:** No  
**Position of publication:** 54 **No. of journals in the cat.:** 172
- 48** Ramón Lorenzo Gómez; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Electrochemical aptamer-based assays coupled to isothermal nucleic acid amplification techniques: New tools for cancer diagnosis. Current Opinion in Electrochemistry. 14, pp. 32 - 43. Elsevier, 2019. ISSN 2451-9103  
**DOI:** https://doi.org/10.1016/j.coelec.2018.11.008  
**Type of production:** Review **Format:** Journal  
**Relevant results:** Very recent journal, without impact factor so far.
- 49** Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Long noncoding RNAs: from genomic junk to rising stars in the early detection of cancer. Analytical and Bioanalytical Chemistry. Springer, 2019. ISSN 1618-2642  
**DOI:** https://doi.org/10.1007/s00216-019-01607-6  
**Type of production:** Review **Format:** Journal  
**Corresponding author:** Yes  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Impact index in year of publication:** 3.431 **Journal in the top 25%:** Yes  
**Position of publication:** 16 **No. of journals in the cat.:** 76

- 50** Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo José Miranda Ordieres; María Jesús Lobo Castañón. Helicase-dependent isothermal amplification: a novel tool in the development of molecular-based analytical systems for rapid pathogen detection. *Analytical and Bioanalytical Chemistry*. 410, pp. 679 - 693. Springer, 2018. ISSN 1618-2642  
**DOI:** <https://doi.org/10.1007/s00216-017-0620-3>  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Impact index in year of publication:** 3.431 **Journal in the top 25%:** Yes  
**Position of publication:** 16 **No. of journals in the cat.:** 76
- 51** Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Post-translational modifications in tumor biomarkers: the next challenge for aptamers?. *Analytical and Bioanalytical Chemistry*. 410 - 8, pp. 2059 - 2065. Springer, 2018. ISSN 1618-2642  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Impact index in year of publication:** 3.431 **Journal in the top 25%:** Yes  
**Position of publication:** 16 **No. of journals in the cat.:** 76
- 52** Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Understanding the Factors Affecting the Analytical Performance of Sandwich?Hybridization Genosensors on Gold Electrodes. *Electroanalysis*. 30, pp. 1229 - 1240. Wiley, 2018. ISSN 1040-0397  
**DOI:** <https://doi.org/10.1002/elan.201800049>  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Impact index in year of publication:** 2.502 **Journal in the top 25%:** No  
**Position of publication:** 29 **No. of journals in the cat.:** 73
- 53** Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Castañón. Harnessing aptamers to overcome challenges in gluten detection. *Biosensors*. 6 - 2, pp. 16. MDPI, 2016. ISSN 2079-6374  
**Type of production:** Review **Format:** Journal  
**Relevant results:** The journal is too young, no impact factor for the moment
- 54** Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón; Arturo J Miranda Ordieres; Paulino Tuñón Blanco. Structured Nucleic Acid Probes for Electrochemical Devices. *Electroanalysis*. 21 - 19, pp. 2077 - 2090. 2009. ISSN 1040-0397  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Impact index in year of publication:** 2.63 **Journal in the top 25%:** No  
**Position of publication:** 18 **No. of journals in the cat.:** 70
- 55** Ramón Lorenzo Gómez; Rebeca Miranda Castro; Marcos García Ocaña; Juan Ramón de los Toyos; Luis Barneo; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. NEW MOLECULAR RECEPTORS FOR DIAGNOSIS AND THERAPY OF PANCREATIC DUCTAL ADENOCARCINOMA. *BRITISH JOURNAL OF SURGERY*. 108, pp. 4. 2021.  
**Type of production:** Meeting Abstract **Format:** Journal  
**Impact source:** ISI **Category:** Surgery  
**Impact index in year of publication:** 6.939 **Journal in the top 25%:** Yes  
**Position of publication:** 7 **No. of journals in the cat.:** 210





- 56** Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo José Miranda Ordieres; María Jesús Lobo Castañón. Métodos de Detección de Gluten más sensibles, una mayor garantía de seguridad para las personas celiacas. Mazorca. 47, pp. 20 - 22. Federación de Asociaciones de Celiacos de España, 2017.  
**Type of production:** Divulgación **Format:** Journal
- 57** Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Castañón. Aptámeros anti-gliadina para la detección de gluten en alimentos. Actualidad Analítica. 55, pp. 36 - 39. Sociedad Española de Química Analítica (SEQA), 01/09/2016.  
**Type of production:** Boletín de la Sociedad Española de Química Analítica **Format:** Journal
- 58** Suely Moura Melo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; José Ribeiro Dos Santos Junior; Rosana A. da Silva Fonseca; María Jesús Lobo Castañón. Electrochemical genosensor for the control of GMO in food and feed using helicase-dependent amplification. Actualidad Analítica. 51, pp. 10 - 13. Sociedad Española de Química Analítica (SEQA), 01/09/2015.  
**Type of production:** Boletín de la Sociedad Española de Química Analítica **Format:** Journal

### Works submitted to national or international conferences

- 1** **Title of the work:** "NUEVAS ESTRATEGIAS BASADAS EN APTÁMEROS Y ESPECTROMETRÍA DE MASAS PARA EL SEGUIMIENTO Y DIAGNÓSTICO DE LA ENFERMEDAD CELÍACA"  
**Name of the conference:** VII Congreso Nacional de la Sociedad Española de Enfermedad Celíaca (SEEC)  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Huesca, Spain  
**Date of event:** 13/05/2021  
**End date:** 14/05/2021  
**Organising entity:** Sociedad Española de Enfermedad Celíaca  
**City organizing entity:** on line,  
Clara Abardía Serrano; Paula Gómez Mejjide; Pablo Rodríguez González; José Ignacio García Alonso; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón.
- 2** **Title of the work:** Aptamer-based Assays for Diagnosis and Management of Celiac Disease  
**Name of the conference:** XXVI International Symposium on Bioelectrochemistry and Bioenergetics of the Bioelectrochemical Society  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Cluj-Napoca, Romania  
**Date of event:** 09/05/2021  
**End date:** 13/05/2021  
**Organising entity:** The Bioelectrochemical Society  
Clara Abardía Serrano; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón.
- 3** **Title of the work:** Electrochemical aptasensors for cancer-related biomarkers: moving toward a more specific diagnosis  
**Name of the conference:** XXVI International Symposium on Bioelectrochemistry and Bioenergetics of the Bioelectrochemical Society  
**Type of event:** Conference





**Type of participation:** Participatory - invited/keynote talk

**City of event:** Cluj-Napoca, Romania

**Date of event:** 09/05/2021

**End date:** 13/05/2021

**Organising entity:** The Bioelectrochemical Society

María Jesús Lobo Castañón; Ramón Lorenzo Gómez; Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez.

**4 Title of the work:** NEW MOLECULAR RECEPTORS FOR DIAGNOSIS AND THERAPY OF PANCREATIC DUCTAL ADENOCARCINOMA

**Name of the conference:** 1st Virtual Congress of the Spanish-Society-for-Surgical-Research

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

**City of event:** on line,

**Date of event:** 11/03/2021

**End date:** 12/03/2021

**Organising entity:** Spanish Soc Surg Res

Ramón Lorenzo Gómez; Rebeca Miranda Castro; Marcos García Ocaña; Juan Ramón de los Toyos; Luis Barneo; Noemí de los Santos Alvarez; María Jesús Lobo Castañón.

**5 Title of the work:** Electrochemical Biosensing Platforms for Monitoring long non-coding RNAs: towards a more Reliable Early Detection of Prostate Cancer

**Name of the conference:** 41st Meeting of the Electrochemistry Group of the Spanish Royal Society of Chemistry and 1st French-Spanish Atelier/Workshop on Electrochemistry

**Type of event:** Conference

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

**City of event:** Paris (on line), France

**Date of event:** 2021

**Organising entity:** Real Sociedad Española de Química-Grupo de Electroquímica

Rebeca Miranda Castro; Raquel Sánchez Salcedo; Clara Abardía Serrano; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón.

**6 Title of the work:** Genosensor electroquímico dual para el diagnóstico del cáncer de próstata a través de la medida de ARN largo no codificante

**Name of the conference:** Jornada Científica de Jóvenes Investigadores de la Red Sensores y Biosensores Electroquímicos (ELECTROBIONET)

**Type of event:** Conference

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

**City of event:** Madrid (on line), Spain

**Date of event:** 2021

**Organising entity:** Red Sensores y Biosensores Electroquímicos (ELECTROBIONET)

Raquel Sánchez Salcedo; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón.

**7 Title of the work:** Nuevas estrategias basadas en aptámeros y espectrometría de masas para el seguimiento y diagnóstico de la enfermedad celíaca

**Name of the conference:** MSACL 2021 EU

**Type of event:** Conference

**Type of participation:** Participatory - poster

**City of event:** Virtual,

**Date of event:** 2021

**Organising entity:** The Association for Mass Spectrometry & Advances in the Clinical Lab



Paula Gómez Meijide; Clara Abardía Serrano; Pablo Rodríguez González; José Ignacio García Alonso; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón.

- 8 Title of the work:** Aptamers against cancer biomarkers: selection and integration into electrochemical sensors  
**Name of the conference:** 72st Annual Meeting of the International Society of Electrochemistry  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Jeju (on line), Republic of Korea  
**Date of event:** 2021  
**End date:** 2021  
**Organising entity:** The International Society of Electrochemistry  
María Jesús Lobo Castañón; Ramón Lorenzo Gómez; Ana Díaz Fernández; Paula Gómez Meijide; Sofía Tellado Arbesu; Rebeca Miranda Castro; Noemí de los Santos Álvarez.
- 9 Title of the work:** Directed selection of aptamers for more specific cancer diagnosis  
**Name of the conference:** Third International Conference on Analytical and Bioanalytical Methods  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Boston (on line), United States of America  
**Date of event:** 2021  
**End date:** 2021  
Noemí de los Santos Álvarez; Ramón Lorenzo Gómez; Rebeca Miranda Castro; María Jesús Lobo Castañón.
- 10 Title of the work:** Catching the Sugars: Electrochemical Aptasensors for the Detection of Cancer-Related Glycosylation Changes in Prostate-Specific Antigen  
**Name of the conference:** 1st International Electronic Conference on Biosensors  
**Type of participation:** Participatory - oral communication  
**City of event:** on line,  
**Date of event:** 02/11/2020  
**End date:** 17/11/2020  
Ana Díaz Fernández; Rebeca Miranda Castro; Pedro Estrela; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Available on-line at: <<https://iecb2020.sciforum.net>>.
- 11 Title of the work:** Electrochemical Platforms for Solid-Phase Isothermal Amplification and Detection of Bacterial Genome  
**Name of the conference:** 1st International Electronic Conference on Biosensors  
**Type of participation:** Participatory - oral communication  
**City of event:** on line,  
**Date of event:** 02/11/2020  
**End date:** 17/11/2020  
Raquel Sánchez Salcedo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Available on-line at: <<https://iecb2020.sciforum.net>>.
- 12 Title of the work:** Giving New Uses to Glucose Meters: Detection of Prostate Cancer  
**Name of the conference:** 1st International Electronic Conference on Biosensors  
**Type of participation:** Participatory - oral communication  
**City of event:** on line,  
**Date of event:** 02/11/2020  
**End date:** 17/11/2020  
Clara Abardía Serrano; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Available on-line at: <<https://iecb2020.sciforum.net>>.



- 13 Title of the work:** Improving the Analytical Performance of Weak Aptamers: DNA Isothermal Amplification Approaches  
**Name of the conference:** 1st International Electronic Conference on Biosensors  
**Type of participation:** Participatory - oral communication  
**City of event:** on line,  
**Date of event:** 02/11/2020  
**End date:** 17/11/2020  
Ramón Lorenzo Gómez; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón. Available on-line at: <<https://iecb2020.sciforum.net>>.
- 14 Title of the work:** Detection of cancer-related glycosylation changes in prostate specific antigen using electrochemical label-free aptasensors  
**Name of the conference:** 71st Annual Meeting of the International Society of Electrochemistry  
**Type of participation:** Participatory - oral communication  
**City of event:** Belgrade (on line), Serbia  
**Date of event:** 31/08/2020  
**End date:** 04/09/2020  
**Organising entity:** The International Society of Electrochemistry  
Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 15 Title of the work:** Electrochemical characterization of aptamers against a potential biomarker of pancreatic ductal adenocarcinoma  
**Name of the conference:** 71st Annual Meeting of the International Society of Electrochemistry  
**Type of participation:** Participatory - poster  
**City of event:** Belgrade (on line), Serbia  
**Date of event:** 31/08/2020  
**End date:** 04/09/2020  
**Organising entity:** The International Society of Electrochemistry  
Noemí de los Santos Álvarez; Ramón Lorenzo Gómez; Marcos García Ocaña; Clara Barneo Caragol; Rebeca Miranda Castro; Juan Ramón de los Toyos; María Jesús Lobo Castañón.
- 16 Title of the work:** Electrochemical dual biosensor platform for the early diagnosis of prostate cancer  
**Name of the conference:** 71st Annual Meeting of the International Society of Electrochemistry  
**Type of participation:** Participatory - poster  
**City of event:** Belgrade (on line), Serbia  
**Date of event:** 31/08/2020  
**End date:** 04/09/2020  
**Organising entity:** The International Society of Electrochemistry  
Raquel Sánchez Salcedo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 17 Title of the work:** Exploiting Glucose Meters for Early Detection of Prostate Cancer  
**Name of the conference:** 71st Annual Meeting of the International Society of Electrochemistry  
**Type of participation:** Participatory - poster  
**City of event:** Belgrade (on line), Serbia  
**Date of event:** 31/08/2020  
**End date:** 04/09/2020  
**Organising entity:** The International Society of Electrochemistry  
Clara Abardía Serrano; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.



- 18** **Title of the work:** TdT vs RCA: DNA isothermal amplifications to improve the analytical performance of aptamers  
**Name of the conference:** 71st Annual Meeting of the International Society of Electrochemistry  
**Type of participation:** 'Participatory - poster  
**City of event:** Belgrade (on line), Serbia  
**Date of event:** 31/08/2020  
**End date:** 04/09/2020  
**Organising entity:** The International Society of Electrochemistry  
Ramón Lorenzo Gómez; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 19** **Title of the work:** Aptamers truncation by secondary structure analysis and thir application to detect gliadin  
**Name of the conference:** XXVIII Congress of the Analytical Chemistry Division  
**Type of participation:** 'Participatory - poster  
**City of event:** Bari, Italy  
**Date of event:** 22/09/2019  
**End date:** 26/09/2019  
**Organising entity:** Societá Chimica Italiana  
Rossella Svigelj; Nicolò Dossi; Rosanna Toniolo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 20** **Title of the work:** Electrochemical aptasensor for the detection of cancer-related glycosylation changes in prostate specific antigen  
**Name of the conference:** C3Bio Bath Conference on Biosensors, Bioelectronics and Biodevices 2019  
**Type of participation:** Participatory - oral communication  
**City of event:** Bath, United Kingdom  
**Date of event:** 09/09/2019  
**End date:** 10/09/2019  
Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 21** **Title of the work:** Aptámeros para el reconocimiento del patrón de glicosilación en proteínas: aplicación a la detección del cáncer de próstata  
**Name of the conference:** XXII Reunión de la Sociedad Española de Química Analítica (SEQA 2019)  
**Type of participation:** Participatory - oral communication  
**City of event:** Valladolid, Spain  
**Date of event:** 17/07/2019  
**End date:** 19/07/2019  
**Organising entity:** Sociedad Española de Química Analítica  
Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 22** **Title of the work:** Monitoring changes in the expression profile of long noncoding RNAs associated with prostatic cancer by using an electrochemical biosensing platform  
**Name of the conference:** XXV International Symposium on Bioelectrochemistry and Bioenergetics of the Bioelectrochemical Society  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Limerick, Ireland  
**Date of event:** 26/05/2019  
**End date:** 30/05/2019  
**Organising entity:** The Bioelectrochemical Society  
Raquel Sánchez Salcedo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.



- 23** **Title of the work:** Isothermal amplification of aptamers for the sensitive detection of cancer biomarkers  
**Name of the conference:** 6th European Chemical Biology Symposium ECBS/LS-EuChemS  
**Type of event:** Conference  
**Type of participation:** Participatory - poster  
**City of event:** Madrid, Spain  
**Date of event:** 03/04/2019  
**End date:** 05/04/2019  
**Organising entity:** EU-OPENSREEN and EuChemS Division of Chemistry in Life Sciences  
Ramón Lorenzo Gómez; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón. Best poster award,
- 24** **Title of the work:** Selection of aptamers recognizing the glycosylation site of PSA: aptasensors for detection of cancer-related glycosylation changes  
**Name of the conference:** 6th European Chemical Biology Symposium ECBS/LS-EuChemS  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Madrid, Spain  
**Date of event:** 03/04/2019  
**End date:** 05/04/2019  
**Organising entity:** EU-OPENSREEN and EuChemS Division of Chemistry in Life Sciences  
Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón.
- 25** **Title of the work:** Aptamer based electrochemical sensors for the analysis of tumor biomarkers  
**Name of the conference:** Società Chimica Italiana, Società Italiana di Ottica e Fotonica  
**Type of event:** Conference  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Firenze, Italy  
**Date of event:** 18/02/2019  
**End date:** 21/02/2019  
**Organising entity:** UP Transfer GmbH an der Universität Potsdam  
Ana Díaz Fernández; Ramón Lorenzo Gómez; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 26** **Title of the work:** A competitive aptamer assay for gluten detection in deep eutectic solvents  
**Name of the conference:** XXXVII Congress of the Analytical Chemistry Division  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Bologna, Italy  
**Date of event:** 16/09/2018  
**End date:** 20/09/2018  
**Organising entity:** Società Chimica Italiana  
Rossella Svirgelj; Nicolo Dossi; Rosanna Toniolo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 27** **Title of the work:** Challenges in the development of electrochemical aptasensors for food and biomedical analysis  
**Name of the conference:** Bioelectrochemistry and Bioelectronics of Macromolecules  
**Type of event:** Conference  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Brno, Czech Republic





**Date of event:** 2018

María Jesús Lobo Castañón; Rebeca Miranda Castro; Noemí de los Santos Álvarez.

- 28** **Title of the work:** Detection of cancer-related glycosylation changes in Prostate Specific Antigen using aptasensors  
**Name of the conference:** ESEAC'17 17th International Conference on Electroanalysis  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Rodos, Greece  
**Date of event:** 2018  
**Organising entity:** The European Society for Electroanalytical Chemistry (ESEAC)  
Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 29** **Title of the work:** ISOTHERMAL APTAMER ELONGATION FOR SENSITIVE TUMOR BIOMARKER ELECTROCHEMICAL DETECTION  
**Name of the conference:** XXXIX Reunión del Grupo de Electroquímica de la Real Sociedad Española de Química y III Simposio E3 del Mediterráneo  
**Type of event:** Conference  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Madrid, Spain  
**Date of event:** 2018  
**Organising entity:** Real Sociedad Española de Química  
**Type of entity:** Sociedad Pública  
Noemí de los Santos Álvarez; Ramón Lorenzo Gómez; Rebeca Miranda Castro; María Jesús Lobo Castañón.
- 30** **Title of the work:** ROLLING CIRCLE AMPLIFIED ELECTROCHEMICAL APTASENSORS FOR CANCER BIOMARKER DETECTION  
**Name of the conference:** ESEAC'17 17th International Conference on Electroanalysis  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Rodos, Greece  
**Date of event:** 2018  
**Organising entity:** The European Society for Electroanalytical Chemistry (ESEAC)  
Noemí de los Santos Álvarez; Ramón Lorenzo Gómez; Rebeca Miranda Castro; María Jesús Lobo Castañón.
- 31** **Title of the work:** A ROBUST INDIUM-TIN-OXIDE PLATFORM FOR THE ELECTROCHEMICAL DETECTION OF SALMONELLA  
**Name of the conference:** BIOSENSORS 2017 1st European & 10th German BioSensor Symposium  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Potsdam, Germany  
**Date of event:** 2017  
**Organising entity:** UP Transfer GmbH an der Universität Potsdam  
Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Castañón.
- 32** **Title of the work:** Aptasensors for Glycoprotein Tumor Markers: New Tools for Cancer Diagnostics  
**Name of the conference:** Mátrafüred 2017. International Conference on Electrochemical Sensors  
**Type of event:** Conference  
**Type of participation:** Participatory - invited/keynote talk





**City of event:** Visegrád, Hungary

**Date of event:** 2017

**Organising entity:** Mátrafüred Society of Electrochemical Sensors

Ana Díaz Fernández; Noelia Fernández; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.

- 33** **Title of the work:** Direct electrochemical detection of waterborne pathogen's 16S rRNA using thioaromatic-based oligonucleotide monolayers  
**Name of the conference:** BIOSENSORS 2017 1st European & 10th German BioSensor Symposium  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Potsdam, Germany  
**Date of event:** 2017  
**Organising entity:** UP Transfer GmbH an der Universität Potsdam  
Rebeca Miranda Castro; Raquel Sánchez Salcedo; Beatriz Suárez Álvarez; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Castañón.
- 34** **Title of the work:** Electrochemical Detection of Salmonella via On-surface Isothermal Amplification of its Genetic Material onto Highly Stable and Reproducible Indium Tin Oxide Platforms  
**Name of the conference:** 3rd International Electronic Conference on Medicinal Chemistry (on line conference)  
**Type of event:** Conference  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** <https://sciforum.net/conference/ecmc-3>,  
**Date of event:** 2017  
**Organising entity:** Pharmaceuticals, a peer-reviewed journal edited by MDPI  
Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 35** **Title of the work:** Nucleic acid-based sensors for the detection of gluten in food: A tool for ensuring the safety of celiac patients  
**Name of the conference:** 253rd American Chemical Society National Meeting & Exposition  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** San Francisco, United States of America  
**Date of event:** 2017  
**Organising entity:** American Chemical Society  
Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Castañón.
- 36** **Title of the work:** Screening of transgenic crops by electrochemical biosensors combined with DNA amplification strategies  
**Name of the conference:** 46th IUPAC World Chemistry Congress.  
**Type of event:** Conference  
**Type of participation:** Participatory - poster  
**City of event:** Sao Paulo, Brazil  
**Date of event:** 2017  
**Organising entity:** The International Union of Pure and Applied Chemistry  
José Ribeiro Dos Santos Junior; Suelly Moura Melo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; Rosana da Silva Fonseca; María Jesús Lobo Castañón.



- 37** **Title of the work:** Solid-phase helicase-dependent amplification on DNA-coated indium-tin-oxide electrodes: a rapid test for electrochemical and optical detection of Salmonella  
**Name of the conference:** XIX Euroanalysis 2017. Europe's Analytical Chemistry Meeting  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Stockholm, Sweden  
**Date of event:** 2017  
**Organising entity:** EucCheMS Division of Analytical Chemistry; Swedish Chemical Society; Swedish Pharmaceutical Society  
María Jesús Lobo Castañón; Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres.
- 38** **Title of the work:** Surface isothermal nucleic acid based amplification strategies in integrated electrochemical biosensors  
**Name of the conference:** XXXVIII Reunión del Grupo de Electroquímica de la Real Sociedad Española de Química & XIX Encontro Ibérico Electroquímica  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Vitoria-Gasteiz, Spain  
**Date of event:** 2017  
**Organising entity:** Real Sociedad Española de Química      **Type of entity:** Sociedad Pública  
Noemí de los Santos Álvarez; Susana Barreda García; Alba Brasa Marqués; Ramón Lorenzo Gómez; Rebeca Miranda Castro; Arturo J. Miranda Ordieres; María Jesús Lobo Castañón.
- 39** **Title of the work:** NOVEL STRATEGIES FOR CANCER BIOMARKER DETECTION IN BLOOD  
**Name of the conference:** II WORKSHOP ON ELECTROCHEMICAL DEVICES II WORKSHOP ELECTROBIONET  
**Type of event:** Workshop  
**Type of participation:** Participatory - oral communication  
**City of event:** Mieres (Asturias), Spain  
**Date of event:** 2017  
**Organising entity:** Electrobionet  
Ramón Lorenzo Gómez; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 40** **Title of the work:** SELECTION OF APTAMERS RECOGNIZING ABERRANT PSA GLYCOSYLATION  
**Name of the conference:** II WORKSHOP ON ELECTROCHEMICAL DEVICES II WORKSHOP ELECTROBIONET  
**Type of event:** Workshop  
**Type of participation:** 'Participatory - poster  
**City of event:** Mieres (Asturias), Spain  
**Date of event:** 2017  
**Organising entity:** Electrobionet  
Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Castañón.
- 41** **Title of the work:** SELECTION OF SPECIFIC APTMERS AGAINST VLPs OF RABBIT HEMORRHAGIC DISEASE VIRUS  
**Name of the conference:** II WORKSHOP ON ELECTROCHEMICAL DEVICES II WORKSHOP ELECTROBIONET  
**Type of event:** Workshop  
**Type of participation:** 'Participatory - poster



**City of event:** Mieres (Asturias), Spain

**Date of event:** 2017

**Organising entity:** Electrobionet

Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; María Jesús Lobo Catañón.

**42 Title of the work:** Aptamers recognizing Gliadin: homogeneous and heterogeneous interaction

**Name of the conference:** 1st Workshop on Electrochemistry Devices (Bio)sensors

**Type of event:** Conference

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

**City of event:** Oporto, Portugal

**Date of event:** 2016

**Organising entity:** GRAQ

Ana Díaz Fernández; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Catañón.

**43 Title of the work:** ELECTROCHEMICAL MOLECULAR DETECTION OF SALMONELLA USING DNA-COATED INDIUM-TIN-OXIDE ELECTRODES AS SENSING PLATFORM

**Name of the conference:** ESEAC'16 16th International Conference on Electroanalysis

**Type of event:** Conference

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

**City of event:** Bath, United Kingdom

**Date of event:** 2016

**Organising entity:** The European Society for Electroanalytical Chemistry (ESEAC)

Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Catañón.

**44 Title of the work:** Electrochemical molecular detection of Salmonella using DNA-coated indium-tin-oxide electrodes as sensing platforms

**Name of the conference:** 6th EuCheMS Chemistry Congress

**Type of event:** Conference

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

**City of event:** Sevilla, Spain

**Date of event:** 2016

**Organising entity:** European Chemical Science (EuCheMS) and ANQUE

Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Catañón.

**45 Title of the work:** Estrategias bioinspiradas para el desarrollo de sensores de afinidad: receptores aptaméricos y amplificación isotérmica de ácidos nucleicos

**Name of the conference:** Workshop de ElectroBionet: Desarrollo de sensores y biosensores electroquímicos

**Type of event:** Workshop

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

**City of event:** Madrid, Spain

**Date of event:** 2016

**Organising entity:** Electrobionet

Rebeca Miranda Castro; Susana Barreda García; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Catañón.



- 46** **Title of the work:** Asymmetric inhibition of a small chiral molecule/aptamer binding reaction upon aptamer modification: a kinetic study using rotating droplet electrochemistry  
**Name of the conference:** Aptamers in Bordeaux  
**Type of participation:** 'Participatory - poster  
**City of event:** Bordeaux, France  
**Date of event:** 2016  
**Organising entity:** International Society on Aptamers  
Lylian Challier; Rebeca Miranda Castro; Claire Fave; Benoît Limoges; François Mavré; Vincent Noël.
- 47** **Title of the work:** Tuning the packing density of DNA on gold surfaces to retain biological functionality  
**Name of the conference:** 67th Annual Meeting of the International Society of Electrochemistry  
**Type of participation:** Participatory - oral communication  
**City of event:** La Hague, Holland  
**Date of event:** 2016  
**Organising entity:** The International Society of Electrochemistry  
Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Castañón.
- 48** **Title of the work:** Aptamers as alternative receptors for transgenic proteins: expanding the analytical tool box for GMO detection  
**Name of the conference:** 3rd Workshop GMOsensor: "Protein-based vs. DNA strategies for GMO detection"; in the framework of an International project  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Río Cuarto, Argentina  
**Date of event:** 2015  
**Organising entity:** Universidad Nacional de Río Cuarto (UNRC)  
Noemí de los Santos Álvarez; Rebeca Miranda Castro; Arturo J. Miranda Ordieres; María Jesús Lobo Catañón.
- 49** **Title of the work:** Are we ready to tackle food labelling regulations?: electrochemical genosensors as food safety analysis tools for screening of genetically modified crops  
**Name of the conference:** 4th International Conference on Bio-Sensing Technology  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Lisbon, Portugal  
**Date of event:** 2015  
**Organising entity:** Elsevier Ltd  
Suely Moura Melo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; José Ribeiro Dos Santos Junior; Rosana A. da Silva Fonseca; María Jesús Lobo Catañón.
- 50** **Title of the work:** ELECTROCHEMICAL GENOSENSOR FOR THE CONTROL OF GMO IN FOOD AND FEED USING HELICASE-DEPENDENT AMPLIFICATION  
**Name of the conference:** XX Reunión de la Sociedad Española de Química Analítica  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Santiago de Compostela, Spain  
**Date of event:** 2015  
**Organising entity:** Sociedad Española de Química Analítica (SEQA)  
Suely Moura Melo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; José Ribeiro Dos Santos Junior; Rosana A. da Silva Fonseca; María Jesús Lobo Catañón.



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CURRÍCULUM VITAE NORMALIZADO

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- 51** **Title of the work:** NANOPARTICLE-MEDIATED AMPLIFICATION FOR ELECTROCHEMICAL DETECTION OF DNA IN GMO MONITORING  
**Name of the conference:** 3rd Workshop GMOsensor: "Protein-based vs. DNA strategies for GMO detection"; in the framework of an International project  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Río Cuarto, Argentina  
**Date of event:** 2015  
**Organising entity:** Universidad Nacional de Río Cuarto (UNRC)  
Juan Sebastián Flórez Tabares; Enrique Albuerne Suárez; Jérémy Onofre; José Ribeiro Dos Santos Junior; Durcilene da Silva; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Patricia Molina; María Jesús Lobo Catañón.
- 52** **Title of the work:** Nature-inspired DNA amplification strategies combined with electrochemical genosensors for on-site screening of GM crops  
**Name of the conference:** 3rd Workshop GMOsensor: "Protein-based vs. DNA strategies for GMO detection"; in the framework of an International project  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Río Cuarto, Argentina  
**Date of event:** 2015  
**Organising entity:** Universidad Nacional de Río Cuarto (UNRC)  
Suely Moura Melo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; José Ribeiro Dos Santos Junior; Rosana A. da Silva Fonseca; María Jesús Lobo Catañón.
- 53** **Title of the work:** SENSITIVE ELECTROCHEMICAL DETECTION OF SALMONELLA DNA BASED ON SILVER NANOPARTICLES AND HELICASE DEPENDENT ISOTHERMAL AMPLIFICATION  
**Name of the conference:** XX Reunión de la Sociedad Española de Química Analítica  
**Type of event:** Conference  
**Type of participation:** Participatory - poster  
**City of event:** Santiago de Compostela, Spain  
**Date of event:** 2015  
**Organising entity:** Sociedad Española de Química Analítica (SEQA)  
Susana Barreda García; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; María Jesús Lobo Catañón.
- 54** **Title of the work:** Electrochemical genosensors for GMO screening of food and feed: detection of 35S promoter  
**Name of the conference:** 2nd Workshop GMOsensor: "Biosensors and Biotechnology"; in the framework of an International project  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Parnaíba, Brazil  
**Date of event:** 2014  
**Organising entity:** Universidade Federal do Piauí (UFPI)  
Suely Moura Melo; Rebeca Miranda Castro; Noemí de los Santos Álvarez; Arturo J. Miranda Ordieres; José Ribeiro Dos Santos Junior; Rosana A. da Silva Fonseca; María Jesús Lobo Catañón.
- 55** **Title of the work:** The mechanism of reconstitution and activation of the soluble glucose dehydrogenase from *Acinetobacter calcoaceticus* unraveled from stopped-flow kinetics experiments  
**Name of the conference:** EMBO 2014: Enzyme mechanisms by biological systems  
**Type of event:** Conference





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

**City of event:** Manchester, United Kingdom

**Date of event:** 2014

**Organising entity:** EMBO

Claire Stines Chaumeil; Sébastien Gounel; Rebeca Miranda Castro; François Mavré; Benoit Limoges; Nicolas Mano.

**56 Title of the work:** Enzyme reconstitution on electrode surface: apo-enzyme vs. prosthetic group immobilization strategies.

**Name of the conference:** 65th Annual Meeting of the International Society of Electrochemistry

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

**City of event:** Lausanne, Switzerland

**Date of event:** 2014

**Organising entity:** The International Society of Electrochemistry

François Mavré; Rebeca Miranda Castro; Ling Zhang; Claire Stines Chaumeil; Nicolas Mano; Benoît Limoges.

**57 Title of the work:** Rotating Droplet Electrochemistry: Kinetic Study of the Aptamer/L-Tyrosinamide Enantioselective Recognition

**Name of the conference:** 65th Annual Meeting of the International Society of Electrochemistry

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

**City of event:** Lausanne, Switzerland

**Date of event:** 2014

**Organising entity:** The International Society of Electrochemistry

Vincent Noël; Lylia Challier; Rebeca Miranda Castro; François Mavré; Benoît Limoges.

**58 Title of the work:** Amélioration de la sélectivité de la PQQ-GDH par une approche rationnelle de mutagenèse dirigée

**Name of the conference:** Journées d'Electrochimie 2013

**Type of event:** Conference

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

**City of event:** Paris, France

**Date of event:** 2013

**Organising entity:** Société Française de Chimie (SFC)

Rebeca Miranda Castro; Zhara Nasri; Nicolas Mano; François Mavré; Benoit Limoges.

**59 Title of the work:** Développement de nouvelles méthodes bioélectroanalytiques basées sur l'enzyme redox PQQ-GDH et sa reconstituton

**Name of the conference:** Journées d'Electrochimie 2013

**Type of event:** Conference

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

**City of event:** Paris, France

**Date of event:** 2013

**Organising entity:** Société Française de Chimie (SFC)

Ling Zhang; Rebeca Miranda Castro; Claire Stines Chaumeil; Nicolas Mano; François Mavré; Benoit Limoges.

**60 Title of the work:** Electrochemical characterization of the soluble PQQ-dependent glucosedehydrase. Effect of directed mutagenesis on selectivity and cooperativity

**Name of the conference:** SFBBM 2013 Congrès de la Société Française de Biochimie & Biologie Moléculaire. GT enzymes

**Type of event:** Conference





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

**City of event:** Paris, France

**Date of event:** 2013

**Organising entity:** Société Française de Biochimie & Biologie Moléculaire

Rebeca Miranda Castro; Zhara Nasri; François Mavré; Claire Stines Chaumeil; Nicolas Mano; Benoît Limoges.

**61 Title of the work:** Investigation of enzyme mechanisms by a new rotating droplet electrochemical method

**Name of the conference:** SFBBM 2013 Congrès de la Société Française de Biochimie & Biologie Moléculaire. GT enzymes

**Type of event:** Conference

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

**City of event:** Paris, France

**Date of event:** 2013

**Organising entity:** Société Française de Biochimie & Biologie Moléculaire

Rebeca Miranda Castro; Lylilian Challier; Damien Marchal; Vincent Noel; François Mavré; Benoît Limoges.

**62 Title of the work:** Kinetics of PQQ reconstitution and activation of soluble glucose dehydrogenase from *Acinetobacter calcoaceticus*

**Name of the conference:** SFBBM 2013 Congrès de la Société Française de Biochimie & Biologie Moléculaire. GT enzymes

**Type of event:** Conference

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

**City of event:** Paris, France

**Date of event:** 2013

**Organising entity:** Société Française de Biochimie & Biologie Moléculaire

Claire Stines Chaumeil; Sébastien Gounel; Rebeca Miranda Castro; François Mavré; Benoît Limoges; Nicolas Mano.

**63 Title of the work:** Rational design of highly sensitive bioelectroanalytical devices: an illustrating example with the heterogeneous reconstitution of PQQ-dependent Glucose Dehydrogenase

**Name of the conference:** 12th Topical Meeting of the International Society of Electrochemistry 2013

**Type of event:** Conference

**Type of participation:** Participatory - invited/keynote talk

**City of event:** Bochum, Germany

**Date of event:** 2013

**Organising entity:** The International Society of Electrochemistry

Fabien Durand; Benoit Limoges; Nicolas Mano; François Mavré; Rebeca Miranda Castro; Ling Zhang.

**64 Title of the work:** Rotating Droplet Electrochemistry: A new tool for the kinetic analysis of molecular and biomolecular reaction progress in low-volume samples

**Name of the conference:** 9th ECHEMS Meeting. Electrochemistry in Particles, Droplets and Bubbles.

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

**City of event:** Palac Lochow, Poland

**Date of event:** 2013

**Organising entity:** ECHEMS

François Mavré; Lylilian Challier; Rebeca Miranda Castro; Vincent Noel; Benoit Limoges.

**65 Title of the work:** Electrochemical Characterization of the Homogeneous and Immobilized Activity of PQQ-dependent Glucose Dehydrogenase

**Name of the conference:** 13ème Colloque du Group Français de Bioélectrochimie 8ème Workshop Franco-Chinois Surface Electrochemistry of Molecules of Biological Interest & Biosensor Applications



**Type of event:** Conference

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

**City of event:** Lacanau-Océan, France

**Date of event:** 2012

**Organising entity:** Group Français de Bioélectrochimie

Fabien Durand; Benoit Limoges; Nicolas Mano; François Mavré; Rebeca Miranda Castro; Jean Michel Savéant; Ling Zhang.

- 66 Title of the work:** Electrochemical Characterization of the Mechanism of PQQ-dependent Glucose Dehydrogenase as an indispensable step for the rational design of new bioelectroanalytical methods  
**Name of the conference:** 63rd Annual Meeting of International Society of Electrochemistry 2012

**Type of event:** Conference

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

**City of event:** Praga, Czech Republic

**Date of event:** 2012

**Organising entity:** The International Society of Electrochemistry

Fabien Durand; Benoit Limoges; Nicolas Mano; François Mavré; Rebeca Miranda Castro; Jean Michel Savéant.

- 67 Title of the work:** Caractérisation électrochimique du comportement coopératif de la PQQ-dépendante Glucose Déhydrogénase

**Name of the conference:** Journées d'Electrochimie 2011

**Type of event:** Conference

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

**City of event:** Grenoble, France

**Date of event:** 2011

**Organising entity:** Société Française de Chimie (SFC)

Fabien Durand; Benoit Limoges; Nicolas Mano; François Mavré; Rebeca Miranda Castro; Jean Michel Savéant.

- 68 Title of the work:** Electrochemical strategies coupled to a genomagnetic assay for the detection of M. tuberculosis

**Name of the conference:** 43rd IUPAC World Chemistry Congress

**Type of event:** Conference

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

**City of event:** Puerto Rico, Puerto Rico

**Date of event:** 2011

**Organising entity:** The International Union of Pure and Applied Chemistry (IUPAC)

Elena Pérez Ruiz; Rebeca Miranda Castro; Noemí de-los-Santos Álvarez; María Jesús Lobo Castañón; Arturo J Miranda Ordieres; Paulino Tuñón Blanco.

- 69 Title of the work:** Comparative detection of Legionella pneumophila by voltammetric and SPR genosensors

**Name of the conference:** ESEAC'10 13th International Conference on Electroanalysis

**Type of event:** Conference

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

**City of event:** Gijón, Principality of Asturias, Spain

**Date of event:** 2010

**Organising entity:** The European Society for Electroanalytical Chemistry (ESEAC)

Rebeca Miranda Castro; María Jesús Lobo Castañón; Arturo J Miranda Ordieres; Paulino Tuñón Blanco.



- 70** **Title of the work:** Hairpin-DNA probe based electrochemical genosensors coupled to magnetic beads for the detection of Mycobacterium tuberculosis  
**Name of the conference:** ESEAC'10 13th International Conference on Electroanalysis  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Gijón, Principality of Asturias, Spain  
**Date of event:** 2010  
**Organising entity:** The European Society for Electroanalytical Chemistry (ESEAC)  
Elena Pérez Ruiz; Rebeca Miranda Castro; María Jesús Lobo Castañón; Arturo J Miranda Ordieres; Paulino Tuñón Blanco.
- 71** **Title of the work:** Microfluidic-based electrochemical assay for nucleic acid detection  
**Name of the conference:** II International Workshop on Analytical Miniaturization  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Oviedo, Principality of Asturias, Spain  
**Date of event:** 2010  
**Organising entity:** Sociedad Española de Química Analítica (SEQA), SEA, SECyTA  
Eva González Fernández; Rebeca Miranda Castro; Serena Laschi; Ilaria Palchetti; Joel S Rossier; Frédéric Reymond; Giovanna Marrazza.
- 72** **Name of the conference:** ESEAC'10 13th International Conference on Electroanalysis  
**Type of event:** Conference  
**Type of participation:** Participatory - others  
**Date of event:** 2010  
**Organising entity:** The European Society for Electroanalytical Chemistry (ESEAC)  
**City organizing entity:** Gijón, Principality of Asturias, Spain
- 73** **Title of the work:** PCR-coupled electrochemical detection of Legionella pneumophila  
**Name of the conference:** ESEAC'08 12th International Conference on Electroanalysis  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Prague, Czech Republic  
**Date of event:** 2008  
**Organising entity:** The European Society for Electroanalytical Chemistry (ESEAC)  
Rebeca Miranda Castro; María Jesús Lobo Castañón; Arturo J Miranda Ordieres; Paulino Tuñón Blanco.
- 74** **Title of the work:** Specific detection of Legionella pneumophila using hairpin-DNA probes immobilized on screen-printed gold electrodes  
**Name of the conference:** EUROanalysis XIV  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Antwerp, Belgium  
**Date of event:** 2007  
**Organising entity:** The European Association for Chemical and Molecular Sciences  
Rebeca Miranda Castro; María Jesús Lobo Castañón; Arturo J Miranda Ordieres; Paulino Tuñón Blanco.
- 75** **Title of the work:** Enzyme-amplified electrochemical detection of Legionella pneumophila using hairpin DNA probes  
**Name of the conference:** ESEAC'06 11th International Conference on Electroanalysis  
**Type of event:** Conference



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

**City of event:** Bordeaux, France

**Date of event:** 2006

**Organising entity:** The European Society for Electroanalytical Chemistry (ESEAC)

Rebeca Miranda Castro; Patricia de-los-Santos Álvarez; María Jesús Lobo Castañón; Arturo J Miranda Ordieres; Paulino Tuñón Blanco.

## Other achievements

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

- 1 Entity:** Universidad Nacional de Río Cuarto  
**Faculty, institute or centre:** Facultad de Ciencias Exactas, Físico-Químicas y Naturales  
**City of entity:** Río Cuarto-Córdoba, Argentina  
**Primary (UNESCO code):** 230104 - Electrochemical analysis; 230700 - Physical chemistry  
**Start-End date:** 21/07/2015 - 22/08/2015      **Duration:** 1 month  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Synthesis and characterization of liposomes. Encapsulation of redox markers  
**Identify key words:** Electroanalysis; Electrochemical; Micelles
- 2 Entity:** Université Paris Diderot  
**City of entity:** París, France  
**Primary (UNESCO code):** 230104 - Electrochemical analysis; 230700 - Physical chemistry  
**Start-End date:** 01/10/2012 - 31/12/2013      **Duration:** 1 year - 3 months  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Development of an electrochemical method for reaction progres kinetic analysis in microliter volumes. Rational design of enantiospecific electrochemical aptaassays  
**Identify key words:** Electroanalysis; Reaction mechanisms; Bioelectrochemical
- 3 Entity:** Université Paris Diderot  
**City of entity:** París, France  
**Primary (UNESCO code):** 230104 - Electrochemical analysis; 230700 - Physical chemistry  
**Start-End date:** 01/10/2010 - 31/12/2012      **Duration:** 2 years  
**Funding entity:** Fundación Ramón Areces      **Type of entity:** Foundation  
**Name of programme:** Beca para Estudios Postdoctorales. Beca para Ampliación de Estudios en el Extranjero en Ciencias de la Vida y de la Materia  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Study of enzymatic mechanisms for homogeneous and immobilized systems using electrochemistry.  
**Identify key words:** Electroanalysis; Reaction mechanisms; Bioelectrochemical
- 4 Entity:** Università degli Studi di Firenze      **Type of entity:** University  
**Faculty, institute or centre:** Dipartimento di Chimica  
**City of entity:** Sesto Fiorentino, Italy  
**Primary (UNESCO code):** 230104 - Electrochemical analysis  
**Start-End date:** 15/09/2008 - 15/12/2008      **Duration:** 3 months  
**Funding entity:** Ministerio de Educación y Ciencia de España  
**Name of programme:** Programa Nacional de Formación de Profesorado Universitario  
**Goals of the stay:** Doctorate

**Provable tasks:** Desarrollo de un genensayo para Legionella sobre dispositivos microfluídicos empleando partículas magnéticas

## Obtained grants and scholarships

- 1** **Name of the grant:** Clarín-COFUND Postdoctoral Integration Grant  
**City awarding entity:** Oviedo, Spain  
**Aims:** Post-doctoral  
**Awarding entity:** FICYT Fundación para el Fomento en Asturias de la Investigación Científica Aplicada y la Tecnología  
**Conferral date:** 31/12/2014 **Duration:** 2 years  
**End date:** 30/12/2016
- 2** **Name of the grant:** Beca para Estudios Postdoctorales. Beca para Ampliación de Estudios en el Extranjero en Ciencias de la Vida y de la Materia  
**City awarding entity:** Paris, France  
**Aims:** Post-doctoral  
**Awarding entity:** Fundación Ramón Areces **Type of entity:** Foundation  
**Conferral date:** 01/10/2010 **Duration:** 2 years  
**End date:** 30/09/2012
- 3** **Name of the grant:** Beca de Posgrado para la Formación de Personal Universitario (FPU)  
**City awarding entity:** Oviedo, Spain  
**Aims:** Pre-doctoral  
**Awarding entity:** Ministerio de Educación y Ciencia de España  
**Conferral date:** 01/04/2005 **Duration:** 4 years  
**End date:** 31/03/2009
- 4** **Name of the grant:** Beca-Colaboración  
**City awarding entity:** Oviedo, Spain  
**Aims:** Pre-doctoral  
**Awarding entity:** Ministerio de Educación Cultura y Deporte  
**Conferral date:** 01/10/2003 **Duration:** 9 months  
**End date:** 30/06/2004

## Prizes, mentions and distinctions

- 1** **Description:** Artículo Destacado del Año 2021 en el Área de la Química: "Impedimetric aptamer-based glycan PSA score for discrimination of prostate cancer from other prostate diseases" Biosensors and Bioelectronics 2021, 175, 112872. Autores: A. Díaz-Fernández, R. Miranda-Castro, N. de-los-Santos-Álvarez, M.J. Lobo-Castañón, P. Estrela.  
**Awarding entity:** Real Sociedad Española de Química-Asturias  
**Conferral date:** 2021
- 2** **Description:** Back cover o contraportada del volumen de la revista Chemical Science: "Aptamers targeting protein-specific glycosylation in tumor biomarkers: general selection, characterization and structural modeling".  
**Awarding entity:** Revista Chemical Science  
**Conferral date:** 2020



- 3** **Description:** Best Poster Prize-71st Annual ISE Meeting of the International Society of Electrochemistry  
**Awarding entity:** International Society of Electrochemistry (ISE)  
**Conferral date:** 2020
- 4** **Description:** Cover o portada del volumen de la revista Biosensors: "TdT vs RCA: Isothermal Amplifications to Improve the Analytical Performance of Aptamers"  
**Awarding entity:** Revista Biosensors  
**Conferral date:** 2020
- 5** **Description:** Premio San Alberto Magno al mejor Trabajo de Investigación en 2020. "Dirigiendo la selección de aptámeros hacia la estructura de glicanos del antígeno específico de la próstata: hacia una detección más específica del cáncer de próstata" Ana Díaz Fernández, Rebeca Miranda Castro, Noemí de los Santos Álvarez, Eloy Fernández Rodríguez y María Jesús Lobo Castañón.  
**Awarding entity:** Colegio de Químicos de Asturias y León  
**Conferral date:** 2020
- 6** **Description:** Premio de Investigación sobre Patologías por Sensibilidad al Gluten/Trigo  
**Awarding entity:** Asociación de celíacos y sensibles al gluten de Madrid  
**Conferral date:** 20/11/2019  
**Recognition linked:** <https://www.celiacosmadrid.org/novedades/noticias/la-asociacion-entrega-su-xvi-premio-de-investigacion-de-la-enfermedad-celiaca-dotado-con-18000-euros/>
- 7** **Description:** Best Poster Prize-6th European Chemical Biology Symposium ECBS/LS-EuChemS  
**Awarding entity:** EuChemS  
**Conferral date:** 2019
- 8** **Description:** Seleccionada para contribuir en el número especial "Young Investigators" de la revista Analytical and Bioanalytical Chemistry 2019. doi.org/10.1007/s00216-019-01935-7  
**Awarding entity:** Revista Analytical and Bioanalytical Chemistry  
**Conferral date:** 2019
- 9** **Description:** Premio de Reconocimiento al mejor Proyecto de Investigación "Técnica para la detención del gluten. Grupo de Electroanálisis del departamento de Química Física y Analítica de la Universidad de Oviedo  
**Awarding entity:** Federación de Asociaciones de Celíacos de España (FACE)  
**Conferral date:** 11/11/2016  
**Recognition linked:** <http://www.celiacos.org/blog/item/1101-ganadores-de-los-premios-face-2016.html>
- 10** **Description:** Best Oral Presentation Prize (XX SEQA 2015)  
**Awarding entity:** SOCIEDAD ESPAÑOLA DE QUIMICA ANALITICA  
**Conferral date:** 02/07/2015
- 11** **Description:** Premio Extraordinario de Licenciatura  
**Awarding entity:** Universidad de Oviedo  
**Conferral date:** 03/10/2005  
**Type of entity:** University





## Summary of other achievements

- 1** **Description of the achievement:** Guest Associate Editor en la revista Frontiers in Chemistry desde enero 2019  
**Conferral date:** 2019
- 2** **Description of the achievement:** Invitación a moderar una sesión en el congreso internacional: 67th Annual Meeting of International Society of Electrochemistry 2016  
**Accrediting entity:** The International Society of Electrochemistry  
**City accrediting entity:** La Hague, Holland  
**Conferral date:** 2016
- 3** **Description of the achievement:** Participant in the Science Week 2016 Universidad de Oviedo. Workshop: "Alimentación segura para todos: ¿realmente sabemos lo que comemos? El ADN tiene la respuesta"  
**City accrediting entity:** Oviedo, Spain  
**Conferral date:** 2016
- 4** **Description of the achievement:** Participant in the Science Week 2015 Universidad de Oviedo. Workshop: "Alimentación segura para todos: ¿realmente sabemos lo que comemos? El ADN tiene la respuesta"  
**City accrediting entity:** Oviedo, Spain  
**Conferral date:** 2015
- 5** **Description of the achievement:** Participant in the Science Week 2014 Universidad de Oviedo. Workshop: "Alimentación segura para todos: ¿realmente sabemos lo que comemos? El ADN tiene la respuesta"  
**City accrediting entity:** Oviedo, Spain  
**Conferral date:** 2014
- 6** **Description of the achievement:** Organización de Congresos: ESEAC 2010, Gijón (Asturias) junio 2010. Miembro del Comité Organizador  
**Conferral date:** 2010