



CURRÍCULUM VÍTAE NORMALIZADO



MIGUEL MORENO MOLINA

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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.

As R3 certificated researcher, since September 2024 I am Project Manager at IRYCIS where I am in charge of the "FORTALECE" initiative funded by ISCIII. In April 2023, I joined AptaTargets as Drug Discovery and Preclinical Manager, a biotech company with an aptamer based drug for acute ischemic stroke, currently initiating phase IIb/III. I am in charge of carrying on the regulatory and non-regulatory preclinical plan of the company. Previously, Scientific Director (CSO) at Aptus Biotech since January 2020 to April 2023, where I was responsible for coordinating and monitoring the different scientific projects of the company, with a team of three doctors and three junior researchers. Likewise, my functions included providing transversal support to the entire organization, evaluating opportunities for new licenses or developments, economic and technical justification of projects, as well as publishing and disseminating the results of different investigations. In October 2009 I joined the group of Carlos Briones at the Astrobiology Centre in Madrid (CAB, CSIC-INTA, Associated to the NASA Astrobiology Institute) where I explored experimental approaches to the RNA world hypothesis, in vitro selection and evolution of nucleic acids (RNA and DNA aptamers), bionanotechnology-inspired biosensors (DNA microarray technology, PNA- and aptamer-based sensors,) and sequence-structure-function relationships in viral genomic RNA studied by AFM.

In 2007 I joined Bioapter, a novel technological company based on the development of aptamers based biosensors and therapies. As as Scientific Director, I was involved in the selection of aptamers against whole cells of Legionella spp in order to develop a biosensor to detect bacteria in water samples. My role included the scientific coordination of a team of up to four people as well as to evaluate novel opportunities for research projects and collaborations.

Previously, in 2006 I moved to Prof. David Russell's group at the University of East Anglia (UK) where I was involved in the development of gold nanoparticles as drug carriers for in vivo PDT. The nanoparticles were synthesised in organic phase with phthalocyanines, then PEG and antibodies were added and showed the water solubility required for the in vivo treatment of tumours in mice as well as the selectivity to be directed to the desired cell types. I gained experience in the synthesis and modification of gold nanoparticles using different approaches in organic solvents and buffers, cell cultures and confocal microscopy usage. This project was carried out in collaboration with the grupo of Prof. Giulio Jori (Univ. of Padova in Italy).

Before, in 2003, I joined the group of Prof. Carlos Martinez A. (CNB-CSIC) to develop DNA arrays based on nanocantilevers in close collaboration with the group of Prof. Laura Lechuga (IMM-CNM-CSIC). The major research lines of my first postdoctoral stage at CNB were the development of DNA nanobiosensors for the detection of single nucleotide polymorphisms by using nanomechanical cantilevers, Mach-Zender interferometers and SPR. I utilized other well-established techniques like radiolabelling and fluorescent labelling in order to test different immobilization strategies of DNA oligonucleotides on gold, silicon oxide and silicon nitride surfaces.

I obtained my Ph.D. at the University of Alcala de Henares where I developed electrochemical DNA biosensors based on DNA-gold capped nanoparticles. a proof of



concept procedure for the selective immobilization of oligonucleotides-functionalized gold nanoparticles on arrayed screen-printed gold electrodes. In addition, as part of my Master degree, we designed a novel SELEX methodology using colloidal gold to select high affinity single stranded DNA aptamers against *Leishmania infantum* KMP-11, a major component of the cell membrane of kinetoplastid parasites. Moreover, combining these selected aptamers and the electrodeposition technology developed, we were able to build up an electrochemical aptasensor for the detection of such *Leishmania* protein. Also, I collaborated in Biotools in the design of a kit based on real time PCR to detect and identify six different animal species commonly used in food samples through the amplification of the cytochrome b gene.

I have participated in 25 original research articles in international journals, 3 review articles by invitation, 6 chapters in specialized books, and more than 70 communications to international conferences.

I have co-supervised three doctoral thesis as well as four Master degrees.

Likewise, in 2007 I co-founded Bioapter, a biotech company aimed to develop the aptamer based biosensors. Nowadays I am partner-investor in AptusTargets as well as AptusBiotech.



General quality indicators of scientific research

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

Total Articles in Publication List: 34

Sum of the Times Cited: 2173 h-index: 19 Verified reviews: 33 Last Updated: 04/087/2025 10:31 GMT



MIGUEL MORENO MOLINA

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Current professional situation

1 Employing entity: IRYCIS

Type of entity: Healthcare Institutions

Professional category: Research Associate

Start date: 02/09/2024

Type of contract: Permanent employment
contract

Dedication regime: Full time

Primary (UNESCO code): 230102 - Biochemical analysis; 230216 - Immunochemistry; 230221 - Molecular biology; 230223 - Nucleic acids; 230227 - Proteins; 239001 - Design. Synthesis and study new drugs; 240300 - Biochemistry; 241203 - Antigen-antibody reaction; 320802 - Action of drugs; 320903 - Evaluation of drugs

Performed tasks: Project Manager of the FORTALECE project. The IRYCIS FORTALECE is a strategic program of our Institute, in line with others already launched "in house", which will allow us to increase our internationalization, uniqueness and impact. It is a cooperative and multidisciplinary project, with high added value, devoted to the generation of innovative Therapies and the validation of biomarkers of efficacy, toxicity and hypersensitivity. We are addressing health problems such as antibiotic resistance, complex infectious pathologies and diseases with low incidence but high morbidity and mortality. My role is the scientific management of the project under supervision of the IP, the scientific director of IRYCIS Laura García Bermejo.

Identify key words: Biopharmaceutics; Drugs evaluation; Drugs interaction; Drug receptors; Toxicology; Molecular mechanism of disease; Medical equipment; Molecular evolution; Molecular markers and recognition; Dna therapy

2 Employing entity: Aptatargets

Type of entity: Business

Professional category: Drug Discovery and
Preclinical Manager

Leadership and management (Y/N): No

City employing entity: Madrid, Community of Madrid, Spain

Phone: (0034) 654589717

Email: miguel.moreno@aptatargets.com

Start date: 17/04/2023

Type of contract: Permanent employment
contract

Dedication regime: Full time

Primary (UNESCO code): 230223 - Nucleic acids

Secondary (UNESCO code): 330200 - Biochemical technology

Tertiary (UNESCO code): 230221 - Molecular biology

Identify key words: Use of biochemical, microbiological and biological tools; Conventional techniques; Nanotechnology; Luminescence spectrometry (fluorescence, quimio(bio) luminiscence,



etc); Spectrophotometry; Cell culture; Tissue culture; Applied biology; Molecular design, de novo design; Molecular evolution; Molecular markers and recognition

Previous positions and activities

	Employing entity	Professional category	Start date
1	Aptatargets	Drug Discovery and Preclinical Manager	17/04/2023
2	Aptus Biotech	Chief Scientific Officer (CSO)	01/01/2020
3	Centro de Astrobiología	Postdoctoral Researcher	01/10/2009
4	BIOAPTER, S.L.	Director of the Research and Development Department	01/05/2008
5	University of East Anglia	Senior Postdoctoral Research Associate	01/06/2006
6	BIOAPTER, S.L.	Scientific Advisor	01/05/2007
7	Centro Nacional de Biotecnología	Investigador Posdoctoral Contratado	01/11/2003
8	Biotools, B & M Labs, S.A.	Becario de Investigación	01/06/2003
9	Universidad de Alcalá	Research Assistant	14/02/2000

1 Employing entity: Aptatargets

Type of entity: Business

City employing entity: Madrid, Community of Madrid, Spain

Professional category: Drug Discovery and Preclinical Manager

Leadership and management (Y/N): Yes

Start-End date: 17/04/2023 - 30/08/2024

Type of contract: Permanent employment contract

Primary (UNESCO code): 230221 - Molecular biology; 230223 - Nucleic acids; 239001 - Design. Synthesis and study new drugs; 241111 - Neurophysiology; 249001 - Neurophysiology; 320802 - Action of drugs; 320803 - Activation, multiple processes; 320808 - Mechanism of drug action; 320809 - Metabolic processes of drugs; 320908 - Preparation of drugs; 320912 - Synthetic drugs; 321400 - Toxicology

Performed tasks: I was in charge of carrying on the regulatory and non-regulatory preclinical plan of the company, including ADME and TOX studies. In addition, as Drug Discovery Manager I supervise the development of novel applications of our aim API as well as go deeper into the mechanism of action by introducing alternative experimental setups or transcriptomic and proteomic approaches.

Area of leadership and/or management activity: drug development

2 Employing entity: Aptus Biotech

Type of entity: Business

City employing entity: Madrid, Community of Madrid, Spain

Professional category: Chief Scientific Officer (CSO) **Leadership and management (Y/N):** Yes

Email: miguel.moreno@aptusbio.com

Start-End date: 01/01/2020 - 16/04/2023

Type of contract: Permanent employment contract

Dedication regime: Full time

Primary (UNESCO code): 230223 - Nucleic acids

Secondary (UNESCO code): 241500 - Molecular biology

Performed tasks: I was responsible for coordinating and monitoring the different scientific projects of the company, providing scientific support in all r & d & i processes. I supervised a team of three doctors and three junior researchers. Likewise, my functions included providing transversal support to the entire organization, evaluating opportunities for new licenses or developments, economic and technical justification of projects, as well as publishing and



disseminating the results of different investigations. Specifically, we were working, among others projects, on the preclinical development of an aptamer for the treatment of different anti-tumor indications, which has given me the opportunity to learn about the development needs of a new drug.

Area of leadership and/or management activity: Public Research Body

- 3** **Employing entity:** Centro de Astrobiología **Type of entity:** State agency
Department: Molecular Evolution
Professional category: Postdoctoral Researcher **Leadership and management (Y/N):** Yes
Email: morenomm@cab.inta-CSIC.es
Start-End date: 01/10/2009 - 30/05/2019
Type of contract: Temporary
Dedication regime: Full time
Primary (UNESCO code): 230223 - Nucleic acids; 241500 - Molecular biology
Performed tasks: My main tasks are to develop, characterize and optimize DNA and RNA aptamers against molecular targets belonging to two pathogenic RNA viruses of major clinical relevance: hepatitis C virus (HCV) and human immunodeficiency virus type 1 (HIV-1). The selected aptamers will be tested as biotechnological tools useful in virology, both as molecular probes in biosensor platforms and as potential antiviral molecules. Additionally, I am characterizing the native structure of certain functional elements belonging to genomic RNAs of these viruses, as well as the conformation of three viroids, using atomic force microscopy (AFM).
Area of leadership and/or management activity: Public Research Body
Applicability in teaching and/or research: Along this period, I have co-supervised two Ph.D students, three Master degrees and two end-of-degrees students. In addition, I regularly teach a lesson about in vitro evolution of nucleic acids in the "Master en Bioquímica, Biología Molecular y Biomedicina" at the Complutense University of Madrid.
- 4** **Employing entity:** BIOAPTER, S.L.
City employing entity: Rozas, Community of Madrid, Spain
Professional category: Director of the Research **Leadership and management (Y/N):** Yes and Development Department
Start-End date: 01/05/2008 - 30/09/2009
Type of contract: Permanent employment contract
Dedication regime: Full time
Primary (UNESCO code): 230101 - Absorption spectroscopy; 230102 - Biochemical analysis; 230104 - Electrochemical analysis; 230106 - Fluorimetry; 230221 - Molecular biology; 230223 - Nucleic acids; 240300 - Biochemistry; 241500 - Molecular biology
Performed tasks: As Director of the Research and Development Department of the company, supported by the Torres Quevedo Program (MICINN, Spain), I was developing aptamers-based biosensors for the detection of pathogenic bacteria in water samples. The selected aptamers against whole cells of *Legionella* spp. were used to develop a biosensor to detect bacteria in water samples. I was in charge of a group of four persons: a Ph.D. student, a lab technician and two administrative assistants
Identify key words: Biomedicine; Molecular evolution
Area of leadership and/or management activity: Empresa Privada
- 5** **Employing entity:** University of East Anglia **Type of entity:** University
Department: School of Chemistry and Pharmacy
City employing entity: Norwich, United Kingdom
Professional category: Senior Postdoctoral Research Associate **Leadership and management (Y/N):** No
Start-End date: 01/06/2006 - 01/05/2008
Type of contract: Temporary employment contract



Dedication regime: Full time

Primary (UNESCO code): 230611 - Organometallics; 241202 - Antibodies

Performed tasks: My main task were developing new modifications for gold nanoparticles carrying photodynamic agents for cancer treatment using Photodynamic Therapy (PDT). The gold nanoparticles were successfully synthesised in organic phase with phtalocyanines and, more importantly, they showed the water solubility required for in vivo treatment of tumours in mice. Eventually, the gold nanoparticles were modified with antibodies in order to improve the selectivity of the PDT.

Area of leadership and/or management activity: Public Research Body

Applicability in teaching and/or research: Gold nanoparticles preparation in organic phase and transfer to water solvents. Treatment of cancer cell cultures

6 Employing entity: BIOAPTER, S.L.

Professional category: Scientific Advisor

Start-End date: 01/05/2007 - 30/04/2008

Type of contract: Servicios Profesionales

Performed tasks: Scientific advising about the development of SPR based biosensors and selection of aptamers

Identify key words: Biosensors; Molecular biology

Applicability in teaching and/or research: Training of the technical personnel of the company.

7 Employing entity: Centro Nacional de Biotecnología

Type of entity: State agency

Department: DEPARTMENT INMUNOLOGY ONCOLOGY S.L.

Professional category: Investigador Posdoctoral Contratado

Start-End date: 01/11/2003 - 31/12/2005

Type of contract: Temporary employment contract

Dedication regime: Full time

Primary (UNESCO code): 230199 - Other (specify); 230223 - Nucleic acids; 230503 - Marked molecules; 241500 - Molecular biology

Performed tasks: To test different immobilization strategies of DNA oligonucleotides on gold, silicon oxide and silicon nitride surfaces. Those findings were employed in the development of DNA nanobiosensors based on nanomechanical cantilevers, Mach-Zender interferometers and Surface Plasmon Resonance (SPR) In addition, my role in the "OPTONANOGEN" European project included the preparation of work-package reports and helping in the organization of the semester meetings

8 Employing entity: Biotools, B & M Labs, S.A.

Type of entity: Business

Professional category: Becario de Investigación

Start-End date: 01/06/2003 - 30/10/2003

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Dedication regime: Full time

Primary (UNESCO code): 230221 - Molecular biology; 240000 - Life Science

Performed tasks: Design of a kit based on real time PCR to detect and identify six different animal species (cow, pork, chicken, horse, goat and sheep) commonly used in food and feed samples through the amplification of their cytochrome b gene, a highly conserved mitochondrial gene

Identify key words: Molecular markers and recognition

9 Employing entity: Universidad de Alcalá

Type of entity: University

Department: bioquímica y biología molecular, Medicina

Professional category: Research Assistant

Leadership and management (Y/N): Yes

Start-End date: 14/02/2000 - 30/04/2003



Type of contract: Grant-assisted student (pre or post-doctoral, others)

Dedication regime: Full time

Performed tasks: Functionalization of gold nanoparticles with thiolated oligonucleotides. Selectively electrodeposit those modules on different positions of gold arrayed microelectrodes, hybridized with PCR products and electrochemically detected on the electrodes surface.

Summary of professional activity

As R3 certificated researcher, since September 2024 I am Project Manager at IRYCIS where I am in charge of the "FORTALECE" initiative funded by ISCIII, a cooperative and multidisciplinary project, devoted to the generation of Innovative Therapies and the validation of biomarkers of efficacy, toxicity and hypersensitivity.

In April 2023, Drug Discovery and Preclinical Manager at Aptatargets, a biotech company with an aptamer based drug for acute ischemic stroke. I was in charge of the regulatory and non-regulatory ADME and TOX studies, development of novel applications as well as go deeper in the mechanism of action by introducing alternative experimental setups or transcriptomic and proteomic approaches. Previously, Scientific Director (CSO) at Aptus Biotech since January 2020 to April 2023, I was responsible for coordinating and monitoring the different scientific projects of the company, providing transversal support to the entire organization, evaluating opportunities for new licenses or developments, economic and technical justification of projects, and publishing and disseminating the results of different investigations.

Past activities includes ten years as postdoctoral researcher at Centre of Astrobiology in Madrid, developing novel applications of aptamers, Scientific Director in Bioapter where I developed biosensors for Legionella monitoring, and Senior Research Associate at the University of East Anglia, developing modified gold nanoparticles for PDT of tumors



Education

University education

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

University degree: Higher degree

Name of qualification: Licenciado en Biología Especialidad Biología Celular y Molecular

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

Date of qualification: 30/06/1998

Doctorates

Doctorate programme: Biomedicina

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

Date of degree: 24/06/2005

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

1 Training title: Estadística aplicada avanzada. Diseño de experimentos y análisis multivariante

Awarding entity: Instituto Nacional de Técnica Aeroespacial **Type of entity:** Public Research Body

End date: 13/12/2018

Duration in hours: 15 hours

2 Training title: Fundamentos de estadística aplicada a la investigación. Muestreo, diseño experimental e interferencia

Awarding entity: Instituto Nacional de Técnica Aeroespacial **Type of entity:** Public Research Body

End date: 09/11/2018

Duration in hours: 20 hours

3 Training title: Europe Union Expertise Course

Awarding entity: Escuela Diplomática **Type of entity:** Escuela Diplomática

End date: 21/10/2002

Duration in hours: 100 hours

4 Training title: Proficiency

Awarding entity: EMBAJADA DEL REINO UNIDO (BRITISH COUNCIL)

End date: 05/2002

Duration in hours: 60 hours

5 Training title: Application of Analytical Techniques to Contaminant Analysis

Awarding entity: Universidad de Alcalá **Type of entity:** University

End date: 08/10/1999

Duration in hours: 120 hours



- 6** **Training title:** Techniques and Applications of Tissues Cultures
Awarding entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
End date: 17/12/1998 **Duration in hours:** 110 hours
- 7** **Training title:** Environmental Inspection of Industrial Activities
Awarding entity: Universidad de Alcalá **Type of entity:** University
End date: 27/10/1998 **Duration in hours:** 24 hours
- 8** **Training title:** Solid Urban Waste Management Course
Awarding entity: Universidad de Alcalá **Type of entity:** University
End date: 27/02/1998 **Duration in hours:** 50 hours

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

Title of course/seminar: Certificado de Aptitud Pedagógica

Goals of the course/seminar: Acquire appropriate teaching and didactical knowledge, as well as the official degree to gain access to the public system as a teacher. Referred to Spanish decrees: article 100.2 Organic Law 2/2006, of 3 of May.

Organising entity: Universidad Complutense de Madrid **Type of entity:** University

Faculty, institute or centre: Instituto Universitario de Ciencias de la Educación (UCM)

Duration in hours: 150 hours

Start-End date: 30/09/1999 - 07/07/2000

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1** **Type of teaching:** Official teaching
Name of the course: Foro de Empresas del Máster Biomateriales
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Obligatory
University degree: Máster de Biomateriales
Course given: La tecnología de aptámeros y sus aplicaciones
Start date: 09/03/2023 **End date:** 21/05/2024
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 1
Entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: Farmacia
City of entity: madrid, Community of Madrid, Spain
Subject language: Spanish

**2 Name of the course:** Tecnología de aptámeros y su aplicación en terapia**University degree:** Graduado o Graduada en Genética**Start date:** 10/03/2022**End date:** 06/03/2024**Entity:** Universidad San Pablo CEU**Type of entity:** University**Faculty, institute or centre:** facultad de medicina**3 Type of teaching:** Official teaching**Name of the course:** Foro de Empresas del Máster Biomateriales**Type of programme:** Master's degree**Type of teaching:** In person theory**Type of subject:** Obligatory**University degree:** Máster de Biomateriales**Course given:** La tecnología de aptámeros y sus aplicaciones**Start date:** 09/03/2023**End date:** 23/05/2023**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 1**Entity:** Universidad Complutense de Madrid**Type of entity:** University**Faculty, institute or centre:** Farmacia**City of entity:** madrid, Community of Madrid, Spain**Subject language:** Spanish**4 Name of the course:** Tecnología de aptámeros y su aplicación en terapia**University degree:** Graduado o Graduada en Genética**Start date:** 10/03/2022**End date:** 16/03/2023**Entity:** Universidad San Pablo CEU**Type of entity:** University**Faculty, institute or centre:** facultad de medicina**5 Name of the course:** Desarrollo de aptámeros para aplicaciones diagnósticas y terapéuticas**University degree:** Graduado o Graduada en Genética**Start date:** 10/03/2022**End date:** 10/03/2022**Entity:** Universidad San Pablo CEU**Type of entity:** University**Faculty, institute or centre:** facultad de medicina**6 Type of teaching:** Official teaching**Name of the course:** Foro de Empresas del Máster Biomateriales**Type of programme:** Master's degree**Type of teaching:** In person theory**Type of subject:** Obligatory**University degree:** Máster de Biomateriales**Start date:** 09/03/2022**End date:** 09/03/2022**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 1**Entity:** Universidad Complutense de Madrid**Type of entity:** University**Faculty, institute or centre:** Farmacia**City of entity:** madrid, Community of Madrid, Spain**7 Type of teaching:** Official teaching**Name of the course:** Estructura y Función de Ácidos Nucleicos y Genómica**Type of programme:** Master's degree**Type of teaching:** In person theory**Type of subject:** Obligatory**University degree:** Master en Bioquímica, Biología Molecular y Biomedicina**Frequency of the activity:** 2



Start date: 21/10/2016

End date: 21/10/2016

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 1

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Departamento de Bioquímica y Biología Molecular I (UCM)

City of entity: madrid, Community of Madrid, Spain

8 Type of teaching: Official teaching

Name of the course: Estructura y Función de Ácidos Nucleicos y Genómica

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Obligatory

University degree: Master en Bioquímica, Biología Molecular y Biomedicina

Frequency of the activity: 2

Start date: 30/10/2015

End date: 30/10/2015

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 1

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Departamento de Bioquímica y Biología Molecular I (UCM)

City of entity: madrid, Community of Madrid, Spain

9 Type of teaching: Official teaching

Name of the course: Estructura y Función de Ácidos Nucleicos y Genómica

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Obligatory

University degree: Master en Bioquímica, Biología Molecular y Biomedicina

Frequency of the activity: 2

Start date: 14/11/2014

End date: 14/11/2014

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 1

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Departamento de Bioquímica y Biología Molecular I (UCM)

City of entity: madrid, Community of Madrid, Spain

10 Type of teaching: Official teaching

Name of the course: Estructura y Función de Ácidos Nucleicos y Genómica

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Obligatory

University degree: Master en Bioquímica, Biología Molecular y Biomedicina

Frequency of the activity: 2

Start date: 18/11/2013

End date: 18/11/2013

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 1

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Departamento de Bioquímica y Biología Molecular I (UCM)

City of entity: madrid, Community of Madrid, Spain

11 Type of teaching: Unofficial teaching

Name of the course: Tecnología del ADN recombinante

Type of programme: Curso de especialización de

Type of teaching: Laboratory work

Posgrado

University degree: Metodología Bioquímica Aplicada



Entity: Universidad de Alcalá

Type of entity: University

Faculty, institute or centre: Facultad de Medicina

Department: Departamento de Bioquímica y Biología Molecular

12 Type of teaching: Official teaching

Name of the course: Fundamentos de Bioquímica y Biología Molecular

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Licenciado en Biología Especialidad Biología Celular y Molecular

Frequency of the activity: 1

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 20

Entity: Universidad de Alcalá

Type of entity: University

Faculty, institute or centre: Facultad de Medicina

Department: departamento de bioquímica y biología molecular

City of entity: Alcala de Henares, Community of Madrid, Spain

13 Type of teaching: Official teaching

Name of the course: Avances en la Investigación en Biomedicina VII

Type of programme: Doctorate

Type of teaching: In person theory

Type of subject: Doctorate

University degree: Doctorado en Biomedicina

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 1

Entity: Universidad de Alcalá

Type of entity: University

Faculty, institute or centre: Facultad de Medicina

Department: Departamento de Fisiología

City of entity: alcala de henares, Community of Madrid, Spain

14 Type of teaching: Official teaching

Name of the course: Biología Molecular

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: licenciado en química

Frequency of the activity: 2

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 40

Entity: Universidad de Alcalá

Type of entity: University

Faculty, institute or centre: Facultad de Medicina

Department: departamento de bioquímica y biología molecular

City of entity: alcala de henares, Community of Madrid, Spain



Experience supervising doctoral thesis and/or final year projects

1 Project title: Desarrollo de aptámeros de DNA y RNA contra diferentes variantes de la proteína core del virus de la hepatitis C

Type of project: Doctoral thesis

Co-director of thesis: Carlos Briones Llorente

Entity: Universidad de Alcalá

Type of entity: University

Student: Beatriz Torres Vázquez

Date of reading: 20/07/2022

2 Project title: Development of nanostructured platforms based on specific aptamers as biosensors for the detection of hepatitis C virus

Type of project: Trabajo Fin de Máster

Co-director of thesis: Carlos Briones Llorente

Entity: Universidad Autónoma de Madrid

Type of entity: University

City of entity: Community of Madrid, Spain

Student: Almudena Nañez Cabrero

Identify key words: Sensor devices

Date of reading: 05/07/2019

3 Project title: Desarrollo de aptámeros de RNA y DNA frente a la proteína EBP-1 mediante selección y evolución in vitro

Type of project: Doctoral thesis

Co-director of thesis: Carlos Briones Llorente

Entity: Universidad Autónoma de Madrid

Type of entity: University

Student: Eva María Lanagrán Valero

Obtained qualification: Sobresaliente

Identify key words: Molecular biology

Date of reading: 18/10/2016

Date of award: 18/10/2016

4 Project title: Selection and characterization of DNA aptamers against immunodominant epitopes of Plasmodium for the diagnosis of malaria

Type of project: Trabajo Fin de Máster

Co-director of thesis: Carlos Briones Llorente

Entity: Universidad Autónoma de Madrid

Type of entity: University

Student: Ana Bravo García

Obtained qualification: 9,3

Date of reading: 22/06/2016

5 Project title: Desarrollo de aptámeros de RNA contra la proteína core del virus de la hepatitis C

Type of project: Trabajo Fin de Máster

Co-director of thesis: Carlos Briones Llorente

Entity: Universidad de Alcalá

Type of entity: University

Student: Beatriz Torres Vázquez

Obtained qualification: 7,9

Date of reading: 21/06/2016



6 Project title: DESARROLLO DE APTÁMEROS DE DNA CONTRA LA PROTEÍNA CORE DEL VIRUS DE LA HEPATITIS C

Type of project: Trabajo de Fin de Grado

Co-director of thesis: Carlos Briones Llorente

Entity: Universidad de Alcalá

Type of entity: University

Student: Beatriz Torres Vázquez

Date of reading: 02/07/2015

7 Project title: Selección de aptameros de RNA contra la proteína CORE del virus de la hepatitis C

Type of project: Trabajo de Fin de Master

Co-director of thesis: Carlos Briones Llorente

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Adrian Fragozo Luna

Date of reading: 02/07/2015

8 Project title: Estudio de la estructura del extremo 5' del Virus del Nilo Occidental utilizando microarrays de DNA

Type of project: Proyecto de prácticas en empresa

Co-director of thesis: Carlos Briones Llorente

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Alberto Perez Ruiz

Date of reading: 30/09/2012

9 Project title: Interacción entre ácidos nucleicos, y los péptidos amiloideos y proteína tau, implicados en la enfermedad de Alzheimer, examinada mediante Resonancia de Plasmón Superficial

Type of project: Doctoral thesis

Co-director of thesis: Juan Jimenez Martínez

Entity: Universidad Autónoma de Madrid

Type of entity: University

Student: Alejandro Barrantes

Obtained qualification: Sobresaliente "Cum laude"

Date of reading: 16/07/2010

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: Nanophotonic Biosensors for the Diagnosis and Clinical Management of Bacterial Infections at the Point of Care: PHITBAC

Identify key words: Biosensors; Nucleotides and nucleosides; Antibiotics; Monoclonal antibodies

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Entity where project took place: Aptusbio

Type of entity: Business

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Laura Lechuga

Nº of researchers: 10

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: SME



Name of the programme: Proyectos de I+D+I en Líneas Estratégicas en colaboración público-privada

Code according to the funding entity: PLEC2021-007739

Start-End date: 01/12/2021 - 31/12/2024

Duration: 3 years - 1 month

Total amount: 1.216.712 €

Sub-project amount: 140.917 €

Percentage as credit: 78,65

Dedication regime: Part time

Applicant's contribution: Scientific responsible and coordinator of the company

2 Name of the project: Comprehensive Platform for The Sustainable Development of Therapies Based On Oligonucleotides: OLIGOFASTX (MIG-20211028)

Identify key words: Nucleotides and nucleosides; Modelization; Biopharmaceutics; Drugs evaluation; Drugs interaction; Drug receptors; Pharmaceutic industry; Therapeutics; Molecular mechanism of disease; Molecular markers and recognition; Dna therapy

Type of project: Research and development, including transfer

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Aptusbiotech

Type of entity: Business

City of entity: Madrid, Community of Madrid, Spain

Nº of researchers: 15

Funding entity or bodies:

Centro para el Desarrollo Tecnológico Industrial

Type of entity: Business

Type of participation: Scientific responsable of the company in the consortium

Name of the programme: Programa Misiones Ciencia e Innovación

Code according to the funding entity: MIG-20211028

Start-End date: 01/12/2021 - 31/12/2024

Duration: 3 years - 1 month

Total amount: 7.400.000 €

Dedication regime: Part time

Applicant's contribution: Coordinator and Scientific responsable of the company in the consortium

3 Name of the project: AptaBreast: Desarrollo Preclínico de un Aptámero para el Tratamiento del Cáncer

Identify key words: Nucleotides and nucleosides; Therapeutics; Cancer

Type of project: Research and development, including transfer

Geographical area: National

Degree of contribution: Scientific coordinator

Entity where project took place: Aptusbiotech

Type of entity: Business

City of entity: Madrid, Community of Madrid, Spain

Nº of researchers: 8

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: SME

Name of the programme: Retos-Colaboración

Code according to the funding entity: RTC2019-007227-1

Start-End date: 21/10/2020 - 31/12/2023

Duration: 4 years

Total amount: 620.400 €

Sub-project amount: 437.846,1 €

Percentage as credit: 65

Dedication regime: Part time

4 Name of the project: 'Desarrollo y caracterización funcional de aptámeros como herramientas biotecnológicas frente a virus RNA patógenos

Type of project: Research and development, including transfer

Degree of contribution: Researcher



Entity where project took place: Centro de Astrobiología

Type of entity: State agency

City of entity: Torrejon de Ardoz, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Carlos Briones Llorente

Nº of researchers: 7

Funding entity or bodies:

Ministerio de Economía y Hacienda

Type of entity: Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad (Ref.: BIO2016-79618-R)

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Name of the programme: Plan Nacional

Code according to the funding entity: BIO2016-79618-R

Start-End date: 01/01/2017 - 31/12/2019

Total amount: 150.000 €

5 Name of the project: Desarrollo y validación de una plataforma basada en aptámeros para la detección y genotipado del virus de la hepatitis C (Ref. RTC-2014-1986-1).

Entity where project took place: Centro de Astrobiología

Type of entity: State agency

Name principal investigator (PI, Co-PI....): Carlos Briones (CAB – CSIC/INTA).

Funding entity or bodies:

Ministerio de Economía y Competitividad

Plan Estatal de Investigación Científica y Técnica y de Innovación 2013-2016

Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad. Retos-Colaboración 2014

Type of participation: Equipo Investigador

Start date: 01/01/2014

Duration: 3 years

Participating entity/entities: 4: Aptus Biotech S.L.; Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC); Fundación para la Investigación Biomédica del Hospital Universitario Ramón y Cajal; S.L.; VIRCELL

6 Name of the project: Nuevas herramientas moleculares frente a virus RNA patógenos: desarrollo de aptámeros inhibidores del VHC y del VIH (Ref. BIO2013-47228-R)

Entity where project took place: Centro de Astrobiología

Type of entity: State agency

Name principal investigator (PI, Co-PI....): Carlos Briones (CAB – CSIC/INTA).

Funding entity or bodies:

Ministerio de Economía y Competitividad

Plan Estatal de Investigación Científica y Técnica y de Innovación 2013-2016

Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad.

Type of participation: Equipo de trabajo

Start date: 01/01/2014

Duration: 3 years - 11 months - 30 days

7 Name of the project: "Desarrollo de biosensores basados en sondas de ácidos nucleicos para el genotipado de virus RNA y para la caracterización estructural de su RNA genómico"

Entity where project took place: Centro de Astrobiología

Type of entity: State agency

Name principal investigator (PI, Co-PI....): Carlos Briones (CAB – CSIC/INTA).



Nº of researchers: 5

Funding entity or bodies:

Programa de Biotecnología (Ref.: BIO2010-20696).

Plan Nacional de I+D+i

Type of entity: State agency

Ministerio de Ciencia e Innovación

Type of entity: Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad

City funding entity: Madrid, Community of Madrid, Spain

Start date: 01/01/2011

Duration: 2 years - 11 months - 30 days

Total amount: 96.800 €

8 Name of the project: “Desarrollo de aptámeros frente a moléculas de interés en astrobiología y biotecnología: optimización del proceso evolutivo mediante una aproximación combinada in vitro/in silico”.

Entity where project took place: Centro de Astrobiología

Type of entity: State agency

Name principal investigator (PI, Co-PI....): Carlos Briones (CAB – CSIC/INTA).

Nº of researchers: 5

Funding entity or bodies:

Programa I3 (Ref.: 200920I040).

Consejo Superior de Investigaciones Científicas

Type of entity: State agency

City funding entity: Madrid, Community of Madrid, Spain

Ministerio de Ciencia e Innovación

Type of entity: Plan Nacional

City funding entity: Madrid, Community of Madrid, Spain

Start date: 01/01/2010

Duration: 11 months - 30 days

Total amount: 30.000 €

9 Name of the project: “Implementación de los procedimientos de protección planetaria para misiones espaciales”.

Entity where project took place: Centro de Astrobiología

Type of entity: State agency

City of entity: Torrejon de Ardoz, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Carlos Briones (CAB – CSIC/INTA).

Nº of researchers: 8

Funding entity or bodies:

Convocatoria de Proyectos Precompetitivos (Ref.: PC0001CAB).

Centro de Astrobiología

Type of entity: State agency

City funding entity: Torrejón de Ardoz, Community of Madrid, Spain

Start date: 15/03/2009

Duration: 1 year

Total amount: 42.000 €

10 Name of the project: “Desarrollo de biosensores basados en microarrays de DNA y en sondas inmovilizadas de PNA para el genotipado de virus”.

Entity where project took place: Centro de Astrobiología

Type of entity: State agency

Name principal investigator (PI, Co-PI....): Carlos Briones (CAB – CSIC/INTA).

Nº of researchers: 5

Funding entity or bodies:

Plan Nacional de I+D+i



Programa de Biotecnología (Ref.: BIO2007-67523).

MINISTERIO DE EDUCACION Y CIENCIA

City funding entity: Spain

Start date: 01/10/2007

Duration: 3 years - 2 months - 30 days

Total amount: 142.780 €

11 Name of the project: Photodynamic therapy of cancer using photosensitiser-nanoparticle conjugates

Entity where project took place: University of East Anglia **Type of entity:** University

City of entity: Norwich, East Anglia, United Kingdom

Name principal investigator (PI, Co-PI....): Prof. David Russell

Nº of researchers: 2

Funding entity or bodies:

Cancer Research UK

Start date: 01/04/2006

Duration: 2 years - 1 month

Participating entity/entities: School of Chemistry; University of East Anglia

Total amount: 148.050 €

12 Name of the project: Development of functional genomics and proteomics technologies and their applications to the study of disease development (15 Subprojects). Subproject 12: Development of DNA NANOBIOCHIPS. GEN2001-4856-C13-11

Entity where project took place: Centro Nacional de Biotecnología **Type of entity:** State agency

Name principal investigator (PI, Co-PI....): Prof. Carlos Martínez-A y Dr. Javier Tamayo

Nº of researchers: 24

Funding entity or bodies:

Ministerio de Ciencia y Tecnología. Acción Estratégica de Genómica y Proteómica

Start date: 01/08/2003

Duration: 2 years

Participating entity/entities: Dpto. de Immunología y Oncología (CNB-CSIC); Grupo de Biosensores (CNM-CSIC)

13 Name of the project: Integrated Opto-Nanomechanical biosensor for functional genomic análisis. OPTONANOGEN

Entity where project took place: Centro Nacional de Biotecnología **Type of entity:** State agency

Name principal investigator (PI, Co-PI....): Prof. Laura M. Lechuga

Nº of researchers: 15

Funding entity or bodies:

UE. IST Programme. IST2001-37239

Start date: 01/07/2002

Duration: 3 years - 5 months - 30 days

Participating entity/entities: 6

14 Name of the project: Intelligent Signal Processing of Biosensor Arrays for Monitoring Wastewaters: Aiming towards alarm systems. INTELLISENS

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

Name principal investigator (PI, Co-PI....): Prof. Elena Domínguez Cañas

Nº of researchers: 6

Funding entity or bodies:

UE. IST Programme



Start date: 01/01/2002

Duration: 1 year - 11 months - 30 days

Participating entity/entities: 6

15 **Name of the project:** Prototipo de un nanobiodispositivo para la detección de alteraciones en genes humanos

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

Name principal investigator (PI, Co-PI....): Prof. Carlos Martínez-A y Dr. Javier Tamayo

Nº of researchers: 6

Funding entity or bodies:

Programa Nacional de I+D+I en Biotecnología. MCyT.BIO2001-1235-C03-01

Start date: 12/12/2001

Duration: 3 years

16 **Name of the project:** La respuesta europea a la multibiodetección. PROTEAS. BIO99-1213

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

Name principal investigator (PI, Co-PI....): Prof. Elena Domínguez Cañas

Nº of researchers: 4

Funding entity or bodies:

Comisión Interministerial de Ciencia y Tecnología **Type of entity:** Plan nacional

City funding entity: Madrid, Community of Madrid, Spain

Start date: 01/01/2000

Duration: 1 year - 11 months - 30 days

Participating entity/entities: Universidad de Alcalá

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

1 **Name of the project:** Desarrollo de biosensores basados en aptámeros para la determinación de bacterias por SPR

Degree of contribution: Socio Promotor

Name principal investigator (PI, Co-PI....): Dr. Miguel Moreno y Victor M. Gonzalez.

Nº of researchers: 3

Funding entity or bodies:

Bioapter S.L.

Start date: 05/2007

Duration: 5 years

Total amount: 1.100.000 €

2 **Name of the project:** Desarrollo y optimización de ensayos basados en PCR en tiempo real para diagnóstico médico y autentificación de alimentos

Degree of contribution: Becario Investigación

Name principal investigator (PI, Co-PI....): Dr. Alberto Domingo Galán

Nº of researchers: 3

Participating entity/entities: 2

Funding entity or bodies:

Biotools B&M LABS

S.A./ Universidad de Alcalá

Start date: 30/06/2003

Duration: 4 months - 1 day

Total amount: 8.400 €



Results

Industrial and intellectual property

1 Title registered industrial property: Aptamers against the hepatitis c virus core protein

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Briones Llorente; de Lucas Cerrillo; Fragoso Luna; Moreno Molina; Fernandez Algar; García Sacristán; González Muñoz; Martín Palma; Torres Vázquez

Entity holder of rights: Centro de Astrobiología

Nº of application: PCT/EP2022/071188

Country of inscription: Spain

Date of register: 29/07/2021

PCT patent: Yes

Companies: aptusbiotech

2 Title registered industrial property: Biosensor for the detection of hepatitis C virus

Type of industrial property: Patent of invention **Author's rights:** No

Inventors/authors/obtainers: Cabral; Briones Llorente; Vazquez Burgos; Palacio Rodríguez; Moreno Molina; Martín Gago; López Fagández; García Hernández; Nañez Cabrero; Torres Vázquez; Alpuim; Domingues

Entity holder of rights: Consejo Superior de Investigaciones Científicas

Nº of application: EP21382711.6

Country of inscription: Spain

Date of register: 29/07/2021

PCT patent: Yes

Companies: aptusbiotech; fundacion para la investigacion biomedica del hospital universitario ramon y cajal

Scientific and technological activities

Scientific production

H index: 17

Date of application: 04/07/2024

Source of H-Index: GOOGLE SCHOLAR

Publications, scientific and technical documents

1 Irene Palacio; Miguel Moreno; Almudena Náñez; Agnes Purwidyantri; Telma Domingues; Patrícia D. Cabral; Jérôme Borme; Marzia Marciello; Jesús Ignacio Mendieta-Moreno; Beatriz Torres-Vázquez; José Ignacio Martínez; María Francisca López; Mar García-Hernández; Luis Vázquez; Pavel Jelínek; Pedro Alpuim; Carlos Briones; José Ángel Martín-Gago. Attomolar detection of hepatitis C virus core protein powered by molecular antenna-like effect in a graphene field-effect aptasensor. *Biosensors and Bioelectronics*. 222, pp. 115006 - 115006. 2023. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0956566322010466>>. ISSN 0956-5663

DOI: 10.1016/j.bios.2022.115006

Type of production: Scientific paper

Format: Journal

Position of signature: 2



Total no. authors: 18

Impact source: ISI

Impact index in year of publication: 12.545

Position of publication: 3

Source of citations: PUBMED

Relevant publication: Yes

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

Category: Science Edition - BIOPHYSICS

Journal in the top 25%: Yes

No. of journals in the cat.: 72

Citations: 1

2 Beatriz Torres-Vázquez; Ana María {de Lucas}; Carlos García-Crespo; Juan Antonio García-Martín; Adrián Fragoso; María Fernández-Algar; Celia Perales; Esteban Domingo; Miguel Moreno; Carlos Briones. In vitro Selection of High Affinity DNA and RNA Aptamers that Detect Hepatitis C Virus Core Protein of Genotypes 1 to 4 and Inhibit Virus Production in Cell Culture. *Journal of Molecular Biology*. 434 - 7, pp. 167501 - 167501. 2022. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0022283622000754>>. ISSN 0022-2836

DOI: 10.1016/j.jmb.2022.167501

Type of production: Scientific paper

Position of signature: 9

Total no. authors: 10

Impact source: ISI

Impact index in year of publication: 6.151

Position of publication: 71

Source of citations: PUBMED

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 297

Citations: 5

3 Miguel Moreno; María Fernández-Algar; Javier Fernández-Chamorro; Jorge Ramajo; Encarnación Martínez-Salas; Carlos Briones. A Combined ELONA-(RT)qPCR Approach for Characterizing DNA and RNA Aptamers Selected against PCBP-2. *Molecules*. 24 - 7, 2019. Available on-line at: <<http://www.mdpi.com/1420-3049/24/7/1213>>. ISSN 1420-3049

DOI: 10.3390/molecules24071213

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 3.267

Position of publication: 142

Source of citations: PUBMED

Relevant publication: Yes

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 297

Citations: 12

4 M. Moreno; L. Vázquez; A. López-Carrasco; J.A. Martín-Gago; R. Flores; C. Briones. Direct visualization of the native structure of viroid RNAs at single-molecule resolution by atomic force microscopy. *RNA Biology*. 16 - 3, pp. 295 - 308. Taylor & Francis, 2019. Available on-line at: <<https://doi.org/10.1080/15476286.2019.1572436>>. ISSN 1547-6286

DOI: 10.1080/15476286.2019.1572436

Type of production: Scientific paper

Position of signature: 1

Format: Journal

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



Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 5.350

Position of publication: 48

Source of citations: PUBMED

Relevant publication: Yes

Corresponding author: No

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 297

Citations: 12

5 Margarita R. Marín-Yaseli; Miguel Moreno; José L. de la Fuente; Carlos Briones; Marta Ruiz-Bermejo. Experimental conditions affecting the kinetics of aqueous HCN polymerization as revealed by UV-vis spectroscopy. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. 191, pp. 389 - 397. 2018. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S1386142517308028>>. ISSN 1386-1425

DOI: 10.1016/j.saa.2017.10.003

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 2.931

Position of publication: 9

Source of citations: PUBMED

Relevant publication: Yes

Format: Journal

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

Corresponding author: No

Category: Science Edition - SPECTROSCOPY

Journal in the top 25%: Yes

No. of journals in the cat.: 41

Citations: 11

6 Monica Camerin; Miguel Moreno; Maria J. Marin; Claire L. Schofield; Isabelle Chambrier; Michael J. Cook; Olimpia Coppellotti; Giulio Jori; David A. Russell. Delivery of a hydrophobic phthalocyanine photosensitizer using PEGylated gold nanoparticle conjugates for the in vivo photodynamic therapy of amelanotic melanoma. Photochemical & Photobiological Sciences. 15, pp. 618 - 625. The Royal Society of Chemistry, 2016. Available on-line at: <<http://dx.doi.org/10.1039/C5PP00463B>>. ISSN 1474-905X

DOI: 10.1039/c5pp00463b

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 9

Impact source: ISI

Impact index in year of publication: 2.344

Position of publication: 178

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 290

Citations: 44

7 Ana García-Sacristán; Miguel Moreno; Ascensión Ariza-Mateos; Elena López-Camacho; Rosa M. Jáudenes; Luis Vázquez; Jordi Gómez; José Ángel Martín-Gago; Carlos Briones. A magnesium-induced RNA conformational switch at the internal ribosome entry site of hepatitis C virus genome visualized by atomic force microscopy. Nucleic Acids Research. 43 - 1, pp. 565 - 580. 2015. Available on-line at: <<http://nar.oxfordjournals.org/content/43/1/565.abstract>>. ISSN 0305-1048

DOI: 10.1093/nar/gku1299

Type of production: Scientific paper

Position of signature: 2

Format: Journal

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



Total no. authors: 9

Impact source: ISI

Impact index in year of publication: 9.202

Position of publication: 18

Source of citations: PUBMED

Relevant publication: Yes

8 M. Moreno; V. M. Gonzalez; E. Rincon; A. Domingo; E. Dominguez. Aptasensor based on the selective electrodeposition of protein-linked gold nanoparticles on screen-printed electrodes. *Analyst*. 2011. Available on-line at: <<http://dx.doi.org/10.1039/C1AN15070G>>. ISSN 0003-2654

DOI: 10.1039/C1AN15070G

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 4.233

Position of publication: 8

Source of citations: PUBMED

Relevant publication: Yes

Corresponding author: No

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 289

Citations: 22

9 T. Stuchinskaya; M. Moreno; M. J. Cook; D. R. Edwards; D. A. Russell. Targeted photodynamic therapy of breast cancer cells using antibody-phthalocyanine-gold nanoparticle conjugates. *Photochemical & Photobiological Sciences*. 10 - 5, pp. 822 - 831. 2011. Available on-line at: <>[Go to ISI](http://WOS:000289995700017)</>. ISSN 1474-905X

DOI: 10.1039/c1pp05014a

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 2.584

Position of publication: 52

Source of citations: PUBMED

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - CHEMISTRY, ANALYTICAL

Journal in the top 25%: Yes

No. of journals in the cat.: 73

Citations: 19

10 M Camerin; M Magaraggia; M Soncin; G Jori; M Moreno; I Chambrier; MJ Cook; DA Russell. The in vivo efficacy of phthalocyanine-nanoparticle conjugates for the photodynamic therapy of amelanotic melanoma. *European Journal of Cancer*. 46 - 10, pp. 1910 - 1918. 2010. ISSN 0959-8049

DOI: 10.1016/j.ejca.2010.02.037

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 5.536

Position of publication: 31

Source of citations: SCOPUS

Format: Journal

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

Corresponding author: No

Category: Science Edition - ONCOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 185

Citations: 146



Relevant publication: Yes

- 11** M. Moreno; E. Rincon; J. M. Perez; V. M. Gonzalez; A. Domingo; E. Dominguez. Selective immobilization of oligonucleotide-modified gold nanoparticles by electrodeposition on screen-printed electrodes. *Biosensors & Bioelectronics*. 25 - 4, pp. 778 - 783. 2009. ISSN 0956-5663

DOI: 10.1016/j.bios.2009.08.028

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 5.429

Position of publication: 2

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - CHEMISTRY, ANALYTICAL

Journal in the top 25%: Yes

No. of journals in the cat.: 70

Citations: 28

- 12** M Moreno; E Rincon; D Pineiro; G Fernandez; A Domingo; A Jimenez-Ruiz; M Salinas; VM Gonzalez. Selection of aptamers against KMP-11 using colloidal gold during the SELEX process. *Biochemical and Biophysical Research Communications*. 308 - 2, pp. 214 - 218. 2003. ISSN 0006-291X

DOI: 10.1016/S0006-291X(03)01352-4

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 2.836

Position of publication: 93

Source of citations: PUBMED

Relevant publication: Yes

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 261

Citations: 36

- 13** Miguel Moreno. Sensors | Aptasensors. Encyclopedia of Analytical Science (Third Edition). pp. 150 - 153. Academic Press, 2019. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/B9780124095472139344>>. ISBN 978-0-12-409547-2

DOI: 10.1016/B978-0-12-409547-2.13934-4

Type of production: Encyclopaedia article

Position of signature: 1

Total no. authors: 1

Source of citations: SCOPUS

Relevant publication: Yes

Format: Book

Degree of contribution: Author or co-author of chapter in book

Corresponding author: Yes

Citations: 5

- 14** LG Carrascosa; M Moreno; M Alvarez; LM Lechuga. Nanomechanical biosensors: a new sensing tool. *Trac-Trends in Analytical Chemistry*. 25 - 3, pp. 196 - 206. 2006. ISSN 0165-9936

DOI: 10.1016/j.trac.2005.09.006

Type of production: Review

Position of signature: 2

Total no. authors: 4

Impact source: ISI

Format: Journal

Degree of contribution: Author or co-author of review

Corresponding author: No

Category: Science Edition - CHEMISTRY, ANALYTICAL



Impact index in year of publication: 5.068

Position of publication: 2

Source of citations: PUBMED

Relevant publication: Yes

Journal in the top 25%: Yes

No. of journals in the cat.: 68

Citations: 209

- 15** Ana García-Sacristán; Elba Mauriz; Marta García-Hernández; Celia Pinto-Díez; Miguel Moreno; M.Elena Martín; Víctor M. González. Adaptive SELEX strategies against HCV core protein lead to the same aptamer. *Journal of Molecular Biology.* pp. 169117 - 169117. 2025. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0022283625001834>>. ISSN 0022-2836

Type of production: Scientific paper

Format: Journal

- 16** Soledad Delgado; Miguel Moreno; Luis Vázquez; José A. Martín-Gago; Carlos Briones. Morphology Clustering Software for AFM Images, Based on Particle Isolation and Artificial Neural Networks. *IEEE Access.* 7, pp. 160304 - 160323. 2019. Available on-line at: <[10.1109/ACCESS.2019.2950984](https://doi.org/10.1109/ACCESS.2019.2950984)>. ISSN 2169-3536

DOI: 10.1109/ACCESS.2019.2950984

Type of production: Scientific paper

Format: Journal

Position of signature: 2

Total no. authors: 5

Corresponding author: No

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS

Impact index in year of publication: 3.745

Position of publication: 35

Journal in the top 25%: Yes

No. of journals in the cat.: 156

- 17** Rebeca Bueno; Marzia Marciello; Miguel Moreno; Carlos Sánchez-Sánchez; José I. Martínez; Lidia Martínez; Elisabet Prats-Alfonso; Anton Guimerà-Brunet; Jose A. Garrido; Rosa Villa; Federico Mompean; Mar García-Hernandez; Yves Huttel; María del Puerto Morales; Carlos Briones; María F. López; Gary J. Ellis; Luis Vázquez; José A. Martín-Gago. Versatile Graphene-Based Platform for Robust Nanobiohybrid Interfaces. *ACS Omega.* 4 - 2, pp. 3287 - 3297. 2019. Available on-line at: <<https://doi.org/10.1021/acsomega.8b03152>>. ISSN 2470-1343

Type of production: Scientific paper

Format: Journal

Position of signature: 3

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

Total no. authors: 19

Corresponding author: No

Impact source: ISI

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Impact index in year of publication: 2.870

Journal in the top 25%: No

Position of publication: 73

No. of journals in the cat.: 179

Source of citations: PUBMED

Citations: 5

- 18** Verónica Martín; Celia Perales; María Fernández-Algar; Helena G. Dos Santos; Patricia Garrido; María Pernas; Víctor Parro; Miguel Moreno; Javier García-Pérez; José Alcamí; José Luis Torán; David Abia; Esteban Domingo; Carlos Briones. An efficient microarray-based genotyping platform for the identification of drug-resistance mutations in majority and minority subpopulations of HIV-1 quasispecies. *PLOS ONE.* 11 - 12, pp. e0166902. Public Library of Science (Aries Systems), 2016. ISSN 1932-6203

DOI: 0.1371/journal.pone.0166902

Type of production: Scientific paper

Format: Journal

Position of signature: 8

Corresponding author: No

Total no. authors: 14

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Impact source: ISI

Journal in the top 25%: Yes

Impact index in year of publication: 2.806



Position of publication: 15

Relevant publication: No

- 19** E. Ramos; M. Moreno; M. E. Martin; M. Soto; V. M. Gonzalez. In Vitro Selection of Leishmania infantum H3-Binding ssDNA Aptamers. Oligonucleotides. 20 - 4, pp. 207 - 213. 2010. Available on-line at: <>Go to ISI>://CCC:000280881400005>. ISSN 1545-4576

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 2.986

Position of publication: 133

Source of citations: SCOPUS

Relevant publication: No

No. of journals in the cat.: 64

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 286

Citations: 26

- 20** M. I. Burguete; F. Galindo; R. Gavara; S. V. Luis; M. Moreno; P. Thomas; D. A. Russell. Singlet oxygen generation using a porous monolithic polymer supported photosensitizer: potential application to the photodynamic destruction of melanoma cells. Photochemical & Photobiological Sciences. 8 - 1, pp. 37 - 44. 2009. Available on-line at: <>Go to ISI>://WOS:000263848000005>. ISSN 1474-905X

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 2.708

Position of publication: 40

Source of citations: SCOPUS

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: No

No. of journals in the cat.: 121

Citations: 34

- 21** LM Lechuga; J Tamayo; M Alvarez; LG Carrascosa; A Yufera; R Doldan; E Peralias; A Rueda; JA Plaza; K Zinoviev; C Dominguez; A Zaballos; M Moreno; C Martinez; D Wenn; N Harris; C Bringer; V Bardinal; T Camps; C Vergnenegre; C Fontaine; V Diaz; A Bernad. A highly sensitive microsystem based on nanomechanical biosensors for genomics applications. Sensors and Actuators B-Chemical. 118 - 1-2, pp. 2 - 10. 2006. ISSN 0925-4005

DOI: 0.1016/j.snb.2006.04.017

Type of production: Scientific paper

Position of signature: 13

Total no. authors: 23

Impact source: ISI

Impact index in year of publication: 2.331

Position of publication: 5

Source of citations: PUBMED

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Journal in the top 25%: Yes

No. of journals in the cat.: 53

Citations: 61



- 22** B Sepulveda; JS del Rio; M Moreno; FJ Blanco; K Mayora; C Dominguez; LM Lechuga. Optical biosensor microsystems based on the integration of highly sensitive Mach-Zehnder interferometer devices. *Journal of Optics a-Pure and Applied Optics*. 8 - 7, pp. S561 - S566. 2006. ISSN 1464-4258
DOI: 10.1088/1464-4258/8/7/S41
- Type of production:** Scientific paper
Position of signature: 3
- Total no. authors:** 7
Impact source: ISI
Impact index in year of publication: 1.604
Position of publication: 16
- Source of citations:** PUBMED
Relevant publication: No
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 52
Citations: 139
- 23** M Alvarez; LG Carrascosa; M Moreno; A Calle; A Zaballos; LM Lechuga; C Martinez-A; J Tamayo. Nanomechanics of the formation of DNA self-assembled monolayers and hybridization on microcantilevers. *Langmuir*. 20 - 22, pp. 9663 - 9668. 2004. ISSN 0743-7463
DOI: 10.1021/la0489559
- Type of production:** Scientific paper
Position of signature: 3
- Total no. authors:** 8
Impact source: ISI
Impact index in year of publication: 3.294
Position of publication: 20
- Source of citations:** PUBMED
Relevant publication: No
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 108
Citations: 90
- 24** Miguel Moreno. Aptasensor. *Encyclopedia of Astrobiology*. pp. 114 - 115. Berlin(Germany): M. Gargaud et al (Editor) Springer Verlag GmbH, 2015.
DOI: 10.1007/978-3-662-44185-5
- Type of production:** Encyclopaedia article
Corresponding author: Yes
- 25** A. Domingo; C. Carrasco; G. Fernández; M. Moreno; E. Rincón; R. Vega. Nucleic acid sequence-specific quantitation: two approaches. *European Laboratory Scientist*. 1, pp. 22 - 24. 2000.
- Type of production:** Popular science article
Position of signature: 4
- Total no. authors:** 5
- Format:** Journal
Degree of contribution: Author or co-author of scientific or technical document for the general public
Corresponding author: No
- 26** A. Domingo; C. Carrasco; G. Fernández; M. Moreno; E. Rincón; R. Vega. Nucleic acid sequence-specific quantitation by competitive and hemicompetitive PCR. *BIOTECH International*. 11, pp. 624 - 625. 1999.
- Type of production:** Popular science article
Position of signature: 4
- Total no. authors:** 5
- Format:** Journal
Degree of contribution: Author or co-author of scientific or technical document for the general public
Corresponding author: No



- 27** Miguel Moreno; Ana Garcia Sacristan; Maria Elena Martin; Victor Manuel Gonzalez Muñoz. Enzyme-Linked Oligonucleotide Assay (ELONA). Nucleic Acids Aptamers. 2570, pp. 235 - 242. Humana Press, 2023. ISSN 1064-3745, ISBN 9781071626948
DOI: 10.1007/978-1-0716-2695-5_18
Type of production: Book chapter
Position of signature: 1
Total no. authors: 4
Source of citations: SCOPUS
Format: Book
Degree of contribution: Author or co-author of chapter in book
Corresponding author: No
Citations: 1
- 28** V. M. González; M. E. Martín; M. Moreno. Aptamers Targeting Protozoan Parasites. Biomedical Applications of Aptamer Technology. San Antonio(United States of America): Ed. John G. Bruno. Nova Science Publishers (Operational Technologies Corp), 2013.
Type of production: Book chapter
Format: Book
- 29** M. Álvarez; K. Zinoviev; M. Moreno; L.M. Lechuga. Cantilever Biosensors. Optical Biosensors: Today and Tomorrow. 10, pp. 419 - 452. Frances S. Ligler and Chris Rowe Taitt (Editors), 2008.
Type of production: Book chapter
Format: Book
- 30** Laura M. Lechuga; Kirill Zinoviev; Laura G. Carrascosa; Miguel Moreno. Nanodevices for Biosensing: design, fabrication and applications. Nanodevices for Life Sciences. 4, pp. 317 - 344. Weinheim(Germany): Ed. Challa S.S. R. Kumar, Wiley-VCH Verlag GmbH&Co.KgaA, 2007.
Collection: Book Series on Nanotechnology for Life Sciences
Type of production: Book chapter
Format: Book
- 31** Carlos Briones; Miguel Moreno. Applications of peptide nucleic acids (PNAs) and locked nucleic acids (LNAs) in biosensor development. Analytical and Bioanalytical Chemistry. 402 - 10, pp. 3071 - 3089. 2012. Available on-line at: <>Go to ISI>://WOS:000301542200006>. ISSN 1618-2642
Type of production: Review
Position of signature: 1
Total no. authors: 2
Impact source: ISI
Impact index in year of publication: 4.478
Position of publication: 22
Format: Journal
Degree of contribution: Author or co-author of review
Corresponding author: No
Category: Science Edition - CHEMISTRY, ANALYTICAL
Journal in the top 25%: No
No. of journals in the cat.: 87
- 32** M. Moreno; V. M. Gonzalez. Advances on Aptamers Targeting Plasmodium and Trypanosomatids. Current Medicinal Chemistry. 18 - 32, pp. 5003 - 5010. 2011. ISSN 0929-8673
Type of production: Review
Position of signature: 1
Total no. authors: 2
Impact source: ISI
Impact index in year of publication: 4.859
Position of publication: 4
Format: Journal
Degree of contribution: Author or co-author of review
Corresponding author: No
Category: Science Edition - CHEMISTRY, MEDICINAL
Journal in the top 25%: Yes
No. of journals in the cat.: 59
- 33** Laura G. Carrascosa; Elba Mauriz; Jose Sánchez del Río; Miguel Moreno; Kirill Zinoviev; Ana Calle Martín; Carlos Domínguez; Laura M. Lechuga. Portable nanobiosensor platforms for ultrasensitive multidetection of biological warfare agents in real time In Commercial and Pre-Commercial Cell Detection Technologies for Defence against Bioterror-Technology, Market and Society. NATO Security through Science. Series-B: Physics and Biophysics. Dordretech(Holland): Ed. L.M. Lechuga. IOA, 2008.
Type of production: Scientific-technical report
Format: Scientific and technical document or report



- 34** J. Sanchez del Rio; L. G. Carrascosa; F. J. Blanco; M. Moreno; J. Berganzo; A. Calle; C. Dominguez; L. M. Lechuga. Lab-on-a-chip platforms based on highly sensitive nanophotonic Si biosensors for single nucleotide DNA testing - art. no. 64771B. SPIE Proceedings. 6477, pp. 64771B-1 - 64771A-9. 2007. Available on-line at: <doi:10.1117/12.713977>.

Type of production: Proceedings Article

Format: Journal

Works submitted to national or international conferences

- 1** **Title of the work:** Ultrasensitive, real-time and label-free detection of hepatitis C virus core protein using graphene fieldeffect, aptamer-based biosensors

Name of the conference: XVII CONGRESO Nacional de Virología

Type of event: Conference

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Santiago de Compostela, Galicia, Spain

Date of event: 02/09/2024

End date: 05/09/2024

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

C. Briones; Irene Palacio; M. Moreno; Beatriz Torres-Vázquez; Telma Domingues; Jérôme Borme; Marzia Marciello; Jesús Ignacio Mendieta-Moreno; José Ignacio Martínez; María Francisca López; Mar García-Hernández; Luis Vázquez; Pavel Jelínek; Pedro Alpuim; José Ángel Martín-Gago. 2024.

- 2** **Title of the work:** Aptamers as oligonucleotide therapeutic tools: OLIGOFASTX consortium as a model of oligonucleotide-based drug development

Name of the conference: 4th International Oligonucleotides and Peptides Conference

Corresponding author: Yes

City of event: Milan, Italy

Date of event: 05/06/2023

End date: 07/06/2023

Organising entity: teknoscienze

Moreno.

- 3** **Title of the work:** Aptamers as improved therapeutic tools: OLIGOFASTX consortium as a model of oligonucleotide-based drug development

Name of the conference: XIV Spanish Drug Discovery Network Meeting

Type of event: Conference

Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk

City of event: Granada, Andalusia, Spain

Date of event: 24/11/2022

End date: 25/11/2022

Organising entity: Drug Discovery Network

- 4** **Title of the work:** Aptamers to improve targeted drug discovery

Name of the conference: 7th Drug Discovery Summit

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk

Corresponding author: Yes

City of event: Madrid, Spain



Date of event: 16/11/2022

End date: 17/11/2022

Organising entity: Platinum Global Solutions

Miguel Moreno.

5 Title of the work: OligoFastX: plataforma integral para el desarrollo sostenible de terapias basadas en oligonucleótidos

Name of the conference: Red Iberoamericana de Aptámeros

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 12/09/2022

End date: 13/09/2022

Organising entity: REDIBA

Miguel Moreno.

6 Title of the work: AptaBreast: Preclinical development of an aptamer for cancer treatment

Name of the conference: IX Reunión de la Red Temática Española de RNA (RIBORED 2022)

Type of event: Conference

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Miraflores de la Sierra, Community of Madrid, Spain

Date of event: 19/05/2022

End date: 20/05/2022

Organising entity: RIBORED

Martín M.E; Pinto C; Ruiz Cañas L; Alcala S; García-Sacristán A; Moreno M.; Sanchez Perez I; Sainz B; González V.M. 2022.

7 Title of the work: Development of an aptamer-based predictive system for response to platinum-derived therapy in lung cancer (PREDIAPT)

Name of the conference: IX Reunión de la Red Temática Española de RNA (RIBORED 2022)

Type of event: Conference

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Miraflores de la Sierra, Community of Madrid, Spain

Date of event: 19/05/2022

End date: 20/05/2022

Organising entity: RIBORED

García-Sacristán A; García-Gude A; Sacristán S; Salgado-Figueroa A; Benito A; Esteban-Rodríguez I; Erill N; Moreno-Mata N.; Garrido P; M. Moreno; De Castro J; Gonzalez-Rumayor V; Ibáñez de Cáceres I; Martín M.E; González V.M. 2022.

8 Title of the work: In vitro selection of aptamers against Hepatitis C virus core protein

Name of the conference: IX Reunión de la Red Temática Española de RNA (RIBORED 2022)

Type of participation: Participatory - oral communication

City of event: Miraflores de la Sierra, Community of Madrid, Spain

Date of event: 19/05/2022

End date: 20/05/2022

Organising entity: RIBORED

B. Torres-Vázquez; Miguel Moreno; Carlos Briones.



9 Title of the work: In vitro selection of high affinity aptamers that detect hepatitis C virus core protein and inhibit virus production in cell culture

Name of the conference: APTAMERS 2022

City of event: Oxford, Catalonia, Spain

Date of event: 04/04/2022

End date: 05/04/2022

Organising entity: ISOAP

Type of entity: Associations and Groups

Beatriz Torres-Vázquez; Miguel Moreno; Carlos Briones.

10 Title of the work: Selección de aptameros de RNA yDNA contra la proteína core del virus de la hepatitis C virus

Name of the conference: Red Iberoamericana de Aptámeros

Corresponding author: Yes

City of event: online,

Date of event: 10/11/2021

End date: 11/11/2021

Organising entity: REDIBA

Beatriz Torres-Vázquez; Miguel Moreno; Carlos Briones.

11 Title of the work: Aptamer-functionalized nanoformulations for targeted cancer therapy

Name of the conference: 48th Annual Meeting of the Controlled Release Society

Corresponding author: Yes

City of event: <https://2021.controlledreleasesociety.org/>,

Date of event: 25/07/2021

End date: 29/07/2021

Organising entity: Controlled Release Society

Groba; García-Sacristán; M González; Moreno; García-Fernández; de la Fuente Freire.

12 Title of the work: Selection of high affinity RNA and DNA aptamers for the detection of hepatitis C virus core protein

Name of the conference: XLIII Congreso de la Sociedad Española de Bioquímica y Biología Molecular

City of event: Barcelona, Catalonia, Spain

Date of event: 19/07/2021

End date: 22/07/2021

Organising entity: SEBBM

Beatriz Torres-Vázquez; Miguel Moreno; Carlos Briones.

13 Title of the work: Aptamer-functionalized nanoformulations for targeted metastatic lung cancer therapy

Name of the conference: 4th Spanish Conference on Biomedical Applications of Nanomaterials

Corresponding author: Yes

City of event: online,

Date of event: 02/06/2021

End date: 04/06/2021

Organising entity: SBAN

Groba; García-Sacristán; M González; Moreno; García-Fernández; de la Fuente Freire.

14 Title of the work: In vitro selection and characterization of RNA and DNA aptamers against hepatitis C virus core protein

Name of the conference: XV CONGRESO Nacional de Virología

Type of participation: 'Participatory - poster'

Reasons for participation: Review before acceptance



Corresponding author: No

City of event: Barcelona, Catalonia, Spain

Date of event: 11/06/2019

End date: 12/06/2019

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

B. Torres-Vázquez; M. Moreno; C. Briones. 2019.

- 15 Title of the work:** Viroid RNA structure visualization and analysis at single-molecule resolution by atomic force microscopy

Name of the conference: XV CONGRESO Nacional de Virología

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 11/06/2019

End date: 12/06/2019

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

M. Moreno; L. Vazquez; M.A. López-Carrasco; J.Á. Martín-Gago; R. Flores; C. Briones. 2019.

- 16 Title of the work:** RNA and DNA aptamers against hepatitis C virus core protein

Name of the conference: APTAMERS 2019

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Oxford, United Kingdom

Date of event: 03/04/2019

End date: 04/04/2019

Organising entity: ISOAP

B. Torres Vázquez; M. Moreno; C. Briones. 2019.

- 17 Title of the work:** A versatile graphene-based platform for robust nano-bio-hybrid interfaces

Name of the conference: 1st International Conference on Nanotechnologies and Bionanoscience (NanoBio 2018)

City of event: Greece

Date of event: 24/09/2018

R. Bueno; M. Marciello; M. Moreno; C. Sánchez-Sánchez; J. I. Martinez; L. Martinez; E. Prats-Alfonso; A. Guimerà-Brunet; J. A. Garrido; R. Villa; F. Mompean; Y. Huttel; M. del Puerto Morales;; Carlos Briones; M. F. López; G. J. Ellis; Luis Vázquez; J. A. Martín-Gago; M. Garcia-Hernandez.

- 18 Title of the work:** Direct visualization of the native conformation of PSTVd, PLMVd and ELVd at single-molecule resolution by atomic force microscopy

Name of the conference: VIII Reunión de la Red Temática Española de RNA (RIBORED 2018)

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Miraflores de la Sierra, Community of Madrid, Spain

Date of event: 05/07/2018

End date: 05/07/2018

Organising entity: RIBORED

M. Moreno; M; M.A. López-Carrasco; J.A. Martín-Gago; R. Flores; C. Briones. 2018.



19 **Title of the work:** Characterization of viroid RNA structure at single-molecule resolution by Atomic Force Microscopy

Name of the conference: International Conference on Viroids and Viroid-Like RNAs

Type of participation: 'Participatory - poster'

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Valencia, Valencian Community, Spain

Date of event: 03/06/2018

End date: 04/06/2018

M. Moreno; M; M.A. López-Carrasco; J.A. Martín-Gago; R. Flores; C. Briones. 2017.

20 **Title of the work:** RNA and DNA aptamers against HCV core protein of genotypes 1 to 4

Name of the conference: VIII Reunión de la Red Temática Española de RNA (RIBORED 2018)

Type of participation: Participatory - oral communication

City of event: Miraflores de la Sierra, Community of Madrid, Spain

Date of event: 03/06/2018

End date: 04/06/2018

Organising entity: RIBORED

B. Torres-Vázquez; Miguel Moreno; Carlos Briones.

21 **Title of the work:** Development of quantitative PCR-based technologies for the functional characterization of RNA and DNA aptamers

Name of the conference: XI RANN

Type of participation: 'Participatory - poster'

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 03/07/2017

End date: 04/07/2017

Organising entity: Spanish biannual meeting on nucleic acids and nucleosides

M. Moreno; Beatriz Torres; M. Fernandez-Algar; C. Briones. 2017.

22 **Title of the work:** Development of RNA and DNA aptamers against HCV core protein of genotypes 1 to 4: applicability to viral diagnosis and genotyping

Name of the conference: XIV CONGRESO Nacional de Virología

Type of participation: 'Participatory - poster'

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Cadiz, Andalusia, Spain

Date of event: 07/06/2017

End date: 09/06/2017

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

Beatriz Torres; M. Moreno; A.M. de Lucas-Cerrillo; C. Briones. 2017.

23 **Title of the work:** UNVEILING VIROID RNA NATIVE STRUCTURE BY ATOMIC FORCE MICROSCOPY

Name of the conference: XIV CONGRESO Nacional de Virología

Type of participation: 'Participatory - poster'

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Cadiz, Andalusia, Spain

Date of event: 07/06/2017

End date: 09/06/2017



Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

M. Moreno; L. Vazquez; M.A. López-Carrasco; J.Á. Martín-Gago; R. Flores; C. Briones. 2017.

24 Title of the work: Caracterización funcional de aptámeros de RNA y DNA mediante (RT-)PCR en tiempo real

Name of the conference: VII Reunión de la Red Temática Española de RNA (RIBORED 2016)

Type of participation: Participatory - oral communication

City of event: Miraflores de la Sierra, Community of Madrid, Spain

Date of event: 02/06/2016

End date: 03/06/2016

Miguel Moreno; Ana María de Lucas; María Fernández-Algar; Ana Bravo; Carlos Briones.

25 Title of the work: Desarrollo validación de una plataforma basada en aptámeros para la detección y genotipado del virus de la hepatitis C

Name of the conference: VII Reunión de la Red Temática Española de RNA (RIBORED 2016)

Type of participation: 'Participatory - poster

City of event: Miraflores de la Sierra, Community of Madrid, Spain

Date of event: 02/06/2016

End date: 03/06/2016

Ana García Sacristán; Miguel Moreno; Celia Pinto; Marta García Hernández; José Rojas; Beatriz Torres; M. Elena Martín; Fernando Morcillo; Ana María de Lucas; María Fernández-Algar; M. Elena Martín; Ana Bravo; Víctor M. González; Carlos Briones. 03/06/2016.

26 Title of the work: Development of quantitative PCR technology (qPCR and RT-qPCR) as a high-resolution detection system for DNA or RNA aptamer-based biosensors

Name of the conference: 26th Anniversary World Congress on Biosensors

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Gothenburg, Sweden

Date of event: 23/05/2016

End date: 27/05/2016

Organising entity: Elsevier / Biosensors & Bioelectronics

M. Moreno; A.M. de Lucas; M. Fernández-Algar; J. Fernández-Chamorro; J. Ramajo; E. Martínez-Salas; C. Briones. 2016.

27 Title of the work: RNA and DNA aptamers targeting HCV core protein and its applicability to HCV diagnosis

Name of the conference: V Congress on Aptamers

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Oxford, United Kingdom

Date of event: 04/04/2016

End date: 06/04/2016

Organising entity: International Society of Aptamers

A.M. de Lucas; M. Moreno; A. Fragoso Luna; B. Torres Vázquez; C. Briones. 2016.

28 Title of the work: ANALYSIS OF THE INTERACTION BETWEEN microRNA miR-122 AND THE HCV IRES ELEMENT BY ATOMIC FORCE MICROSCOPY AND BIOCHEMICAL TECHNIQUES

Name of the conference: XIII CONGRESO Nacional de Virología

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain



Date of event: 07/06/2015

End date: 10/06/2015

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

M. Moreno; L. Vazquez; A. Ariza-Mateos; A. García-Sacristán; R.M. Jáudenes; J.Á. Martín-Gago; C. Briones. 2015.

29 Title of the work: IN VITRO SELECTION AND CHARACTERIZATION OF RNA AND DNA APTAMERS TARGETING THE RNA-BINDING PROTEIN PCBP-2

Name of the conference: XIII CONGRESO Nacional de Virología

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Madrid, Community of Madrid, Spain

Date of event: 07/06/2015

End date: 10/06/2015

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

M. Moreno; M. Fernández-Algar; J. Fernández-Chamorro; J. Ramajo; E. Martínez-Salas; C. Briones. 2015.

30 Title of the work: INSIGHTS INTO VIROID RNA STRUCTURE AS REVEALED BY ATOMIC FORCE MICROSCOPY

Name of the conference: XIII CONGRESO Nacional de Virología

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 07/06/2015

End date: 10/06/2015

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

M. Moreno; L. Vazquez; M.A. López-Carrasco; J.Á. Martín-Gago; R. Flores; C. Briones. 2015.

31 Title of the work: Desarrollo y caracterización de aptámeros de RNA y de DNA contra la proteína de unión a IRES PCBP-2.

Name of the conference: VI Reunión de la Red Temática Española de RNA (RIBORED 2014)

City of event: Albacete,

Date of event: 27/05/2014

Miguel Moreno; Eva M. Lanagrán; María Fernández; Jorge Ramajo; Encarnación Martínez-Salas; Carlos Briones. 27/05/2014.

32 Title of the work: Detección de un cambio conformacional global inducido por Mg²⁺ en el IRES del virus de la hepatitis C mediante Microscopía de Fuerza Atómica.

Name of the conference: VI Reunión de la Red Temática Española de RNA (RIBORED 2014)

City of event: Albacete,

Date of event: 27/05/2014

Carlos Briones; A. García-Sacristán; E. López-Camacho; A. Ariza-Mateos; M. Moreno; R. M. Jáudenes; L. Vázquez; J. Gómez; J. A. Martín-Gago. 12/06/2014.

33 Title of the work: Utilización de aptámeros en diagnóstico y terapia de enfermedades víricas: un ejemplo de colaboración pública y privada.

Name of the conference: VI Reunión de la Red Temática Española de RNA (RIBORED 2014)

City of event: Albacete,

Date of event: 27/05/2014

García-Sacristán A.; Pinto-Díez C; Gómez-Chacón G. F.; Martín M. E.; Moreno M.; González V. M.; Briones C. 12/06/2014.



34 **Title of the work:** Utilización de aptámeros en diagnóstico y terapia de enfermedades víricas: un ejemplo de colaboración pública y privada.

Name of the conference: VI Reunión de la Red Temática Española de RNA (RIBORED 2014)

City of event: Albacete,

Date of event: 27/05/2014

García-Sacristán A.; Pinto-Díez C; Gómez-Chacón G. F.; Martín M. E.; Moreno M.; González V. M.; Briones C. 12/06/2014.

35 **Title of the work:** A magnesium-dependent RNA structural switch at the Internal Ribosome Entry Site of Hepatitis C Virus genome monitored by Atomic Force Microscopy

Name of the conference: XII CONGRESO Nacional de Virología

Type of participation: Participatory - oral communication

City of event: Burgos, Castile and León, Spain

Date of event: 09/06/2013

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

A. García-Sacristán; E. López-Camacho; A. Ariza-Mateos; M. Moreno; R. M. Jáudenes; J. Gómez; J. Ángel Martín-Gago; C. Briones. 2013.

36 **Title of the work:** Development of RNA and DNA aptamers against the IRES-binding protein Ebp1

Name of the conference: XII CONGRESO Nacional de Virología

Type of participation: 'Participatory - poster

City of event: Burgos, Castile and León, Spain

Date of event: 09/06/2013

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

Eva M. Lanagrán; M. Moreno; J. Ramajo; M. Fernández-Algar; E. Martínez-Salas; C. Briones. 2013.

37 **Title of the work:** RNA aptamers targeting the IRES-binding protein PCBP-2

Name of the conference: XII CONGRESO Nacional de Virología

Type of participation: 'Participatory - poster

City of event: Burgos, Castile and León, Spain

Date of event: 09/06/2013

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

M. Moreno; Eva M. Lanagrán; J. Ramajo; M. Fernández-Algar; E. Martínez-Salas; C. Briones. 2013.

38 **Title of the work:** Magnesium-dependent RNA folding of the internal ribosome entry site of Hepatitis C Virus genome monitored by Atomic Force Microscopy

Name of the conference: II Reunión de la Red Española Interdisciplinar de Biofísica de Virus (BioFiViNet)

City of event: Madrid,

Date of event: 17/04/2013

End date: 19/04/2013

A. García-Sacristán; E. López-Camacho; A. Ariza-Mateos; M. Moreno; R. M. Jáudenes; J. Gómez; J. Ángel Martín-Gago; C. Briones. 17/04/2013.

39 **Title of the work:** Aptamers and their applications in biosensors development

Name of the conference: Advanced Processes in Optical Sensing and Photonic Applications. International Spring School of the MICROSERES Comunidad de Madrid Consortia

Type of participation: Participatory - invited/keynote talk

City of event: Madrid, Community of Madrid, Spain

Date of event: 21/05/2012

End date: 25/05/2012



M. Moreno. 2012.

40 Title of the work: Desarrollo de aptámeros de RNA y DNA frente a moléculas de bajo peso molecular: aminoácidos y antibióticos

Name of the conference: V Reunión de la Red Temática Española de RNA (RIBORED 2012)

Type of participation: Participatory - oral communication

City of event: Valencia, Valencian Community, Spain

Date of event: 13/05/2012

End date: 15/05/2012

M. Moreno; M. Fernández-Algar; M. Stich; Eva María Lanagrán; Ana García-Sacristán; Carlos Briones.2012.

41 Title of the work: Study of the Hepatitis C genomic RNA structure using DNA microarrays and Atomic Force Microscopy

Name of the conference: Workshop on the study of Hepatitis C Virus infection

Type of participation: 'Participatory - poster

City of event: Madrid,

Date of event: 13/04/2012

A. García-Sacristán; E. López-Camacho; A. Ariza-Mateos; M. Moreno; R. M. Jáudenes; J. Gómez; J. Ángel Martín-Gago; C. Briones.2012.

42 Title of the work: Study of the Hepatitis C virus genomic RNA structure using DNA microarrays and Atomic Force Microscopy

Name of the conference: V Jornadas Científicas del Centro de Investigación Biomédica en Red de Enfermedades Hepáticas y Digestivas (CIBERehd),

Type of participation: 'Participatory - poster

City of event: Barcelona,

Date of event: 22/11/2011

End date: 23/11/2011

A. García-Sacristán; E. López-Camacho; M. Fernández-Algar; M. Moreno; R. Jaudenes; J.A. Martín-Gago; E. Domingo; J. Gómez; C. Briones.2011.

43 Title of the work: Structural analysis of the Internal Ribosome Entry Site of Hepatitis C Virus by means of DNA microarrays and Atomic Force Microscopy

Name of the conference: RNA 2011: The 16th Annual Meeting of the RNA Society,

Type of participation: 'Participatory - poster

City of event: Kyoto, Japan

Date of event: 14/06/2011

End date: 18/06/2011

Organising entity: RNA Society

A. García-Sacristán; E. López-Camacho; M. Moreno; J. Gomez; J.A. Martin-Gago; C. Briones. 2011.

44 Title of the work: Visualización del elemento IRES del virus de la Hepatitis C mediante Microscopía de Fuerza Atómica

Name of the conference: XI CONGRESO Nacional de Virología

Type of participation: Participatory - oral communication

City of event: Granada, Andalusia, Spain

Date of event: 29/05/2011

End date: 01/06/2011

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

Ana García-Sacristán; Elena López-Camacho; M. Moreno; Jordi Gómez; José Ángel Martín Gago; Carlos Briones. 2011.



45 Title of the work: Highly structured viral RNA elements visualized by AFM

Name of the conference: Fuerzas y Túnel 2010

Type of participation: 'Participatory - poster

City of event: Tarragona, Catalonia, Spain

Date of event: 27/09/2010

End date: 29/09/2010

Elena López-Camacho; Ana García-Sacristán; M. Moreno; Carlos Briones; José Ángel Martín Gago.
27/09/2010.

46 Title of the work: Caracterización estructural del RNA genómico de HCV mediante microarrays de DNA y microscopía de fuerza atómica

Name of the conference: RIBORED 2010

City of event: Sevilla, Andalusia, Spain

Date of event: 13/05/2010

End date: 14/05/2010

García-Sacristán, A.; Moreno, M.; López-Camacho, E.; Fernández-Algar, M.; Lanagrán, E.M.; Martín-Gago, J.A.; Gómez, J.; Briones, C.2013.

47 Title of the work: Aptamers as capturing elements in optical biosensors

Name of the conference: ASCOS 2009. Optical Chemical Sensors for Environmental and Food Safety.

Type of participation: Participatory - invited/keynote talk

City of event: Madrid, Community of Madrid, Spain

Date of event: 26/08/2009

M. Moreno. 26/08/2003.

48 Title of the work: Photodynamic therapy with photosensitiser-nanoparticle conjugates

Name of the conference: Nanotecnologías para el diagnóstico y tratamiento del cáncer, IV jornada FICBAC

City of event: Madrid, Community of Madrid, Spain

Date of event: 23/11/2007

Organising entity: FICBAC

M. Moreno. 23/11/2007.

49 Title of the work: Lab-on-a-chip platforms based on highly sensitive nanophotonic Si biosensors for single nucleotide DNA testing.

Name of the conference: SPIE Photonics West (The International Society for Optical Engineering). Silicon Photonics Symposium.

Type of participation: Participatory - oral communication

City of event: San José, United States of America

Date of event: 14/02/2007

J. Sánchez del Río; M. Moreno; L.G. Carrascosa; B. Sepúlveda; A. Calle; C. Domínguez and L. M. Lechuga.14/02/2007.

50 Title of the work: Intracellular photodynamic therapy with photosensitiser-nanoparticle conjugates

Name of the conference: XIV Workshop avances en biología molecular por jóvenes investigadores en el extranjero

City of event: Centro Nacional de Biotecnología,

Date of event: 28/12/2006

/as: M. Moreno and D.A. Russell. 28/12/2006.



- 51** **Title of the work:** Photonic Micro/Nanobiosensors for Early Diagnosis of Diseases
Name of the conference: Optical Fiber Sensors, OSA Technical Digest (CD) (Optical Society of America, 2006), paper WB2PDP.
Type of participation: Participatory - oral communication
City of event: Cancun, Mexico
Date of event: 23/10/2006
J. Sánchez Del Río; B. Sepúlveda; M. Moreno; L. G. Carrascosa; K. Zinoviev; A. Calle; C. Domínguez; L. M. Lechuga. 23/10/2006.
- 52** **Title of the work:** Intracellular photodynamic therapy with photosensitizer-nanoparticle conjugates: Cancer therapy using a 'Trojan horse'
Name of the conference: 6th International Symposium on Photodynamic Diagnosis and Therapy in Clinical Practice.
Type of participation: Participatory - oral communication
City of event: Bressanone, Australia
Date of event: 11/10/2006
End date: 15/10/2006
M.E. Wieder; D.C. Hone; M. Moreno; M.J. Cook; J. Gavrilovic; D.A. Russell. 2006.
- 53** **Title of the work:** A highly sensitive microsystem based on nanomechanical biosensors for genomics applications.
Name of the conference: IBERSENSORS 2006. 5th IberoAmerican Conference on Sensors.
Type of participation: Participatory - oral communication
City of event: Montevideo, Uruguay
Date of event: 27/09/2006
End date: 29/09/2006
M. Moreno; M. Álvarez; L.G. Carrascosa; J.A. Plaza; K. Zinoviev; C Domínguez; L.M. Lechuga.
- 54** **Title of the work:** Biosensores de resonancia de plasmón superficial como herramientas de análisis genético en la detección precoz de cáncer de mama heredado.
Name of the conference: IBERSENSORS 2006. 5th IberoAmerican Conference on Sensors.
Type of participation: 'Participatory - poster
City of event: Montevideo, Uruguay
Date of event: 27/09/2006
End date: 29/09/2006
/as: L.G. Carrascosa; M. Moreno; A. Calle; L.M. Lechuga. 27/09/2006.
- 55** **Title of the work:** Integrated photonic biosensor for high sentivity DNA testing.
Name of the conference: IBERSENSORS 2006. 5th IberoAmerican Conference on Sensors.
Type of participation: 'Participatory - poster
City of event: Montevideo, Uruguay
Date of event: 27/09/2006
End date: 29/09/2006
J. Sánchez del Río; M. Moreno; L. G. Carrascosa; B. Sepúlveda; A. Calle; C. Domínguez; L. M. Lechuga. 27/09/2006.
- 56** **Title of the work:** Fabrication of Microelectrodes based on Carbon Nanotubes for biosensing applications
Name of the conference: MNE'06. 32nd International Conference on Micro-Nano- Engineering 2006
Type of participation: 'Participatory - poster
City of event: Barcelona, Catalonia, Spain
Date of event: 17/09/2006
End date: 20/09/2006



E. Mendoza; J. Orozco; C. Jiménez; M. Moreno; A. Calle; L. M. Lechuga; C. Fernández-Sánchez. 13/09/2006.

57 Title of the work: A highly sensitive microsystem based on nanomechanical biosensors for genomics applications.

Name of the conference: NATO Advanced Research Workshop: "Commercial and Pre-commercial Cell Detection Technologies for Defence against Bioterror – Technology, Market and Society.

Type of participation: Participatory - oral communication

City of event: Brno, Czech Republic

Date of event: 03/09/2006

End date: 06/09/2006

L.M. Lechuga; L.G. Carrascosa; E. Mauriz; J. Sánchez del Río; M. Moreno; K. Zinoviev; A. Calle; C. Domínguez. 03/09/2006.

58 Title of the work: A high sensitive DNA biosensor based on integrated MZI CMOS compatible

Name of the conference: Europtrode VIII

Type of participation: 'Participatory - poster

City of event: Tübingen, Germany

Date of event: 02/04/2006

End date: 05/04/2006

J. Sánchez del Río; M. Moreno; L. G. Carrascosa; B. Sepúlveda; A.Calle; C. Domínguez; L. M. Lechuga. 02/04/2006.

59 Title of the work: Nanomechanical Biosensor based on Optical Waveguide Microcantiliver Arrays

Name of the conference: Europtrode VIII

Type of participation: 'Participatory - poster

City of event: Tübingen, Germany

Date of event: 02/04/2006

End date: 05/04/2006

K. Zinoviev; M. Moreno; J.A. Plaza; V. Cadalso; C. Domínguez; L.M.Lechuga. 02/04/2006.

60 Title of the work: Nanobiosensor devices for early detection of cancer and infectious agents

Name of the conference: Acto de celebración "Ochoa, 100 años: mirando al futuro"

Type of participation: 'Participatory - poster

City of event: Madrid, Spain

Date of event: 16/11/2005

M. Moreno; L.G. Carrascosa; M. Álvarez; J. Sánchez del Río; B. Sepúlveda; E. Mauriz; J. Treviño; A. Calle; L.M. Lechuga. 17/11/2005.

61 Title of the work: Nanomechanical transducers based on MEMS technology for highly sensitive biosensor devices".

Name of the conference: SMCTSM. XXV CONGRESO Nacional de la Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales

City of event: Zacatecas, Mexico

Date of event: 26/09/2005

End date: 30/09/2005

Organising entity: Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales
L.M. Lechuga; K. Zinoviev; L.G. Carrascosa; M. Moreno; J.A. Plaza; C. Domínguez. 2030.

62 Title of the work: Nanomechanical Biochips For Genomics And Proteomics

Name of the conference: EUROSENSORS'05.

Type of participation: 'Participatory - poster



City of event: Barcelona, Spain

Date of event: 11/09/2005

End date: 14/09/2005

/as: J. Tamayo; M. Álvarez; L.G. Carrascosa; K. Zinoviev; J.A. Plaza; D. Ramos; M. Moreno; M. Calleja; J. Mertens; A. Calle; C. Domínguez; L.M. Lechuga. 11/09/2005.

63 Title of the work: Study of the nanomechanical response during molecular recognition.

Name of the conference: 1st Workshop on Nanomechanical Sensors

City of event: Madrid, Spain

Date of event: 15/11/2004

End date: 16/11/2004

M. Álvarez; L. G. Carrascosa; M. Calleja; A. Calle; M. Moreno; L.M. Lechuga; J. Tamayo. 15/11/2004.

64 Title of the work: "Integrated Opto-Nanomechanical biosensor for functional genomic analysis (OPTONANOGEN)".

Name of the conference: 1st Workshop on Nanomechanical Sensors.

City of event: Madrid, Spain

Date of event: 15/11/2004

End date: 16/11/2004

J. Tamayo; M. Álvarez; L.G. Carrascosa; L.M. Lechuga; J.A. Plaza; K. Zinoviev; C. Domínguez; Al Yufera; A. Rueda; A. Zaballos; M. Moreno; C. Martínez-A; V. Cardinal; C. Vergnerêgre; C. Fontaine; C. Hughes; D. Wenn; V. Díaz; A. Bernard. 15/11/2004.

65 Title of the work: Nanomechanics for biochemical detection in liquids.

Name of the conference: IBERSENSOR'2004. 4nd IberoAmerican Conference on Sensors

Type of participation: Participatory - oral communication

City of event: Puebla, Mexico

Date of event: 27/10/2004

End date: 29/10/2004

M. Álvarez; L. G. Carrascosa; M. Calleja; M. Moreno; J. Tamayo; L.M. Lechuga. 27/10/2004.

66 Title of the work: Development of biosensors based on Nanomechanics and its applications for protein and DNA detection.

Name of the conference: International Symposium on Sensor Science (I3S)

Type of participation: Participatory - oral communication

City of event: Nanking, China

Date of event: 29/05/2004

End date: 03/06/2004

J. Tamayo; M. Álvarez; L.G.Carrascosa; M. Calleja; M. Moreno; L. M. Lechuga. 01/06/2004.

67 Title of the work: Characterization of the immobilization of sulfur-derivatized DNA for Nanomechanical Biochips.

Name of the conference: TEDA 2004 Scanning Probe Microscopy, Sensors and Nanostructures

Type of participation: 'Participatory - poster

City of event: Beijing, China

Date of event: 23/05/2004

End date: 27/05/2004

L. G. Carrascosa; M. Álvarez; M. Moreno; J. Tamayo; M. Calleja; L. M. Lechuga. 23/05/2004.



68 Title of the work: Development of nanomechanical biosensors for environmental control and functional genomics.

Name of the conference: TEDA 2004 Scanning Probe Microscopy, Sensors and Nanostructures

Type of participation: Participatory - oral communication

City of event: Beijing, China

Date of event: 23/05/2004

End date: 27/05/2004

M. Álvarez; L. G. Carrascosa; M. Calleja; J. Tamayo; M. Moreno.; A. Boisen; L. M. Lechuga. 23/05/2004.

69 Title of the work: Selection of aptamers against kmp-11 using colloidal gold during the SELEX process

Name of the conference: Workshop on New Trends in Nucleic Acids Biosensors

Type of participation: 'Participatory - poster

City of event: Florence, Italy

Date of event: 25/10/2003

End date: 29/10/2003

D. Piñeiro; M. Moreno; E. Rincón; G. Fernández; A. Domingo; A.Jiménez-Ruiz; M. Salinas; V.M. González. 2029.

70 Title of the work: Selección de aptámeros frente a KMP-11 usando coloides de oro durante el proceso de selección

Name of the conference: XXVI CONGRESO de la sociedad de Bioquímica y Biología Molecular

Type of participation: 'Participatory - poster

City of event: La Coruña, Galicia, Spain

Date of event: 16/09/2003

End date: 19/09/2003

Organising entity: sociedad española de bioquímica y biología molecular

D. Piñeiro; M. Moreno; E. Rincón; G. Fernández; A. Domingo; A.Jiménez-Ruiz; M. Salinas; V.M. González. 2003.

71 Title of the work: New pyridazino fused salts as DNA intercalators

Name of the conference: XXII national congress of the Spanish society of pharmacology, XI national congress of the Spanish society of therapeutic chemistry

Type of participation: 'Participatory - poster

City of event: Valencia, Valencian Community, Spain

Date of event: 14/10/2000

End date: 17/10/2000

Organising entity: SOCIEDAD ESPAÑOLA DE FARMACOLOGIA

J.Siro; E. Benito; G. Fernández; M. Moreno; J.L. García-Navío; A. Domingo; J. Vaquero and J. Alvarez-Builla. 2000.

72 Title of the work: Determinación directa de la especificidad de secuencia en compuestos intercalantes de DNA

Name of the conference: XXIII CONGRESO de la sociedad de Bioquímica y Biología Molecular

Type of participation: 'Participatory - poster

City of event: Granada, Andalusia, Spain

Date of event: 13/09/2000

End date: 16/09/2000

Fernández, G.; Moreno, M.; Molina, A.; Pastor, A.; Garcia-Nieto, R.; Rincón, E.; Jiménez, S.; Ruiz, S.; Vega, R.; Gago, F.; Alvarez-Builla, J.; Vaquero, J.J.; Domingo, A. 2000.



73 Title of the work: Determinación directa de una interacción de tipo intercalativo en ligandos con afinidad por DNA

Name of the conference: XXIII CONGRESO de la sociedad de Bioquímica y Biología Molecular

Type of participation: 'Participatory - poster

City of event: Granada, Andalusia, Spain

Date of event: 13/09/2000

End date: 19/09/2000

Fernández, G.; Moreno, M.; Siro, J.; Pastor, A.; Rincón, E.; Jiménez, S.; Ruiz, S.; Vega, R.; Gago, F.; Alvarez-Builla, J.; García, J.L.; Vaquero, J.J.; Domingo, A. 2000.

74 Title of the work: Diseño de patrones para PCR competitiva

Name of the conference: XXIII CONGRESO de la sociedad de Bioquímica y Biología Molecular

Type of participation: 'Participatory - poster

City of event: Granada,

Date of event: 13/09/2000

End date: 16/09/2000

Rincón, E.; Moreno, M.; Fernández, G; Jiménez, S.; Ruiz, S.; Vega, R.; Gago F.; Vaquero, J.J; Domingo, A.2000.

75 Title of the work: New pyridazino fused salts as DNA intercalators

Name of the conference: RANN-II

Type of participation: 'Participatory - poster

City of event: San Lorenzo del Escorial, Madrid, Spain

Date of event: 20/10/1999

End date: 23/10/1999

J.Siro; E. Benito; G. Fernández; M. Moreno; J.L. García-Navío; A. Domingo; J. Vaquero; J. Alvarez-Builla.

Works submitted to national or international seminars, workshops and/or courses

1 Title of the work: Aptámero contra el cáncer de mama

Name of the event: XXII Encuentro de Cooperación Farma-Biotech

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 15/11/2022

Organising entity: FARMAINDUSTRIA Asociación

Nacional Empresarial de la Industria Farmacéutica

Miguel Moreno.

Type of entity: Associations and Groups

2 Title of the work: APTATHERAPY TO BREAST CANCER TREATMENT

Name of the event: 4th HealthTech Innovation Days

Corresponding author: Yes

City of event: Paris, France

Date of event: 13/10/2022

End date: 14/10/2022

Organising entity: HealthTech For Care

Miguel Moreno.

3 Title of the work: Nanophotonic biosensors for the diagnosis and clinical management of bacterial infections at the point of care: PHITBAC

Name of the event: Programa de Seminarios IRYCIS 2022



Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 19/05/2022

Organising entity: Instituto Ramón y Cajal de Investigación Sanitaria-IRYCIS

Type of entity: Healthcare Institutions

4 Title of the work: Selección y caracterización de aptameros de DNA frente a epitopos inmunodominantes de Plasmodium para el diagnóstico de la Malaria

Name of the event: XXV Reunión anual de Farmacólogos de la Comunidad de Madrid (FARMADRID-25)

City of event: Madrid,

Date of event: 30/06/2016

Organising entity: Sociedad Española de Farmacología

Ana Bravo; Miguel Moreno; Isabel González; Antonio Puyet; Jose Manuel Bautista; Carlos Briones.

5 Title of the work: In Vitro Evolution of Nucleic Acids and their applications in Aptasensors

Name of the event: Seminario Grupo de Biosensores CIN2

Type of event: Seminar

Reasons for participation: Upon invitation

Geographical area: National

City of event: Barcelona, Catalonia, Spain

Date of event: 31/03/2011

Organising entity: CENTRO DE INVESTIGACION EN NANOCIENCIA Y NANOTECNOLOGIA **Type of entity:** State agency

6 Title of the work: Aptamers as capturing elements in optical biosensors

Name of the event: Optical Chemical Sensors for Environmental and Food Safety (ASCOS 2009)

Type of event: Course

Reasons for participation: Upon invitation

Geographical area: Non EU International

City of event: Madrid, Community of Madrid, Spain

Date of event: 26/08/2009

End date: 03/09/2009

Organising entity: Advanced Study Course on Optical Chemical Sensors

City organizing entity: Madrid, Community of Madrid, Spain

Miguel Moreno.

7 Title of the work: Photodynamic therapy with photosensitiser-nanoparticle conjugates

Name of the event: Nanotecnologías para el diagnóstico y tratamiento del cáncer, IV jornada FICBAC

Type of event: Workshop

Reasons for participation: Upon invitation

Geographical area: Non EU International

City of event: Madrid, Community of Madrid, Spain

Date of event: 23/11/2007

Organising entity: Agencia Laín Entralgo

Miguel Moreno; David A. Russell.

8 Title of the work: Intracellular photodynamic therapy with photosensitiser-nanoparticle conjugates

Name of the event: XIV Workshop avances en biología molecular por jóvenes investigadores en el extranjero

Type of event: Workshop

Reasons for participation: Upon invitation



Geographical area: National

City of event: Madrid, Community of Madrid, Spain

Date of event: 28/12/2006

Organising entity: Centro Nacional de Biotecnología (CNB-CSIC)

Miguel Moreno; David A. Russell.

9 Title of the work: Nanobiosensing for early cancer detection

Name of the event: Seminar at the Tyndall Research Institute

Type of event: Seminar

Reasons for participation: Upon invitation

Geographical area: European Union

City of event: Cork, Ireland

Date of event: 21/02/2006

Organising entity: Tyndall Research Institute

Type of entity: R&D Centre

Miguel Moreno.

10 Title of the work: Generación de aptámeros de DNA de cadena sencilla frente a la proteína KMP-11 de Leishmania infantum

Name of the event: Sesiones Científicas organizado por el grupo de Microarrays

Type of event: Seminar

Reasons for participation: Upon invitation

Geographical area: National

Date of event: 22/07/2003

Organising entity: Centro de Regulación Genómica **Type of entity:** University Centres and Structures and Associated Bodies

R&D management and participation in scientific committees

R&D management

1 Name of the activity: Reunión bianual de la Red Española de RNA 'RiboRed2022'

Type of management: Management of organised events

Performed tasks: Co-organizador

Entity: Red Española de RNA

Start date: 25/05/2022

Duration: 2 days

Nº of people: 58

Identify key words: Molecular mechanism of disease; Cell culture; Virus cultivation; Structural biology; Molecular evolution; Virology; Viral diseases of plants; Viral pathogens of plants

2 Name of the activity: Reunión bianual de la Red Española de RNA 'RiboRed2016'

Type of management: Management of organised events

Performed tasks: Co-organizador

Entity: Red Española de RNA

Start date: 02/06/2016

Duration: 2 days



Evaluation and revision of R&D projects and articles

1 Performed tasks: Sensitive aptasensing of tobramycin through a rational design of catalytic hairpin assembly and hybridization chain reaction amplification monomers for CRISPR/Cas12a activation

Entity where activity was carried out: Analyst

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 17/03/2025 - 27/03/2025

2 Performed tasks: Enhancement of Sensitivity in SPR Detection of Fipronil Based on Fe3O4@PDA Signal Amplification Strategy

Entity where activity was carried out: Analyst

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 13/01/2025 - 23/01/2025

3 Performed tasks: A Novel Colorimetric Nano Aptasensor for Ultrasensitive Detection of Aflatoxin B1 Based on the Exonuclease III-Assisted Signal Amplification Approach

Entity where activity was carried out: Foods

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 01/10/2021 - 08/10/2021

4 Performed tasks: Naked-eye colorimetric detection of HCV RNA mediated by 5' UTR-targeted antisense oligonucleotide and plasmonic gold nanoparticles

Entity where activity was carried out: Analyst

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 14/01/2021 - 20/01/2021

5 Performed tasks: Binding Characteristics Study of DNA based Aptamers for E. coli O157:H7

Entity where activity was carried out: Molecules

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 01/12/2020 - 27/12/2020

6 Performed tasks: The Latest Achievements in the Construction of Influenza Virus Detection Aptasensors

Entity where activity was carried out: Viruses

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 13/10/2020 - 23/10/2020

7 Performed tasks: Detection of chloramphenicol with an aptamer-based colorimetric assay: critical evaluation of specific and unspecific binding of analyte molecules

Entity where activity was carried out: Microchimica Acta

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 27/09/2020 - 01/10/2020



8 **Performed tasks:** Competitive Aptasensor for Ultrasensitive Multiplexed Detection of Cancer Biomarkers by Fluorescent Nanoparticle Counting

Entity where activity was carried out: Analyst

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 17/02/2020 - 09/03/2020

9 **Performed tasks:** Warfarin Pharmacogenetics: Single-nucleotide polymorphism detection using CMOS photosensor-based real time PCR

Entity where activity was carried out: Analyst

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 17/12/2019 - 28/12/2019

10 **Performed tasks:** Turn-On Fluorescence Aptasensor on Magnetic Nanobeads for Aflatoxin M1 Detection Based on an Exonuclease III-Assisted Signal Amplification Strategy

Entity where activity was carried out: Nanomaterials

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 20/12/2018 - 09/01/2019

11 **Performed tasks:** Aptamer-Based Biosensors for Antibiotic Detection: A Review

Entity where activity was carried out: Biosensors

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 04/05/2018 - 14/05/2018

12 **Performed tasks:** Practical Application of Aptamer-Based Biosensors in Detection of Low Molecular Weight Pollutants in Water Sources

Entity where activity was carried out: Molecules

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 08/01/2018 - 28/01/2018

13 **Performed tasks:** Biosensor Application of Aptamers for Small Molecule Pollutants in Water Sources

Entity where activity was carried out: Molecules

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 06/01/2018 - 16/01/2018

14 **Performed tasks:** A gold nanoparticle based fluorescent probe for simultaneous recognition of single-stranded DNA and double-stranded DNA

Entity where activity was carried out: Microchimica Acta

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 09/10/2017 - 30/10/2017

15 **Performed tasks:** Gold nanoparticles based fluorescent sensor for multiplexed recognition of single-stranded DNA and double-stranded DNA

Entity where activity was carried out: Microchimica Acta

Type of activity: Review of articles in scientific or technological journals



Access system: With express recognition of the credits concerned

Start-End date: 06/10/2017 - 30/10/2017

16 Performed tasks: Construction of a highly sensitive signal-on electrochemical aptasensor based on gold nanoparticles/amine functionalized silica nanoparticles for selective detection of tryptophan using hemin

Entity where activity was carried out: International Journal of Biological Macromolecules

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 03/02/2017 - 13/02/2017

17 Performed tasks: MoS₂ based digital response platform for aptamer based fluorescent detection of pathogens

Entity where activity was carried out: Microchimica Acta

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 06/12/2015 - 09/12/2015

18 Performed tasks: Aptamer microarrays – current status and future prospects

Entity where activity was carried out: Microarrays

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 08/03/2015 - 18/03/2015

19 Performed tasks: A sensitive lateral flow biosensor for Escherichia coli O157:H7 detection based on aptamer mediated strand displacement amplification

Entity where activity was carried out: Analytica Chimica Acta

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 15/06/2014 - 22/08/2014

20 Performed tasks: Enhancement of DNA Immobilization and Hybridization on Gold Electrode Modified Using ZnO Nanoparticles/Chitosan Film

Entity where activity was carried out: Current Analytical Chemistry

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 01/04/2011 - 11/04/2011

21 Performed tasks: Bi-enzyme functionlized hollow PtCo nanochains as labels for an electrochemical aptasensor

Entity where activity was carried out: Biosensors and Bioelectronics

Type of activity: Review of articles in scientific or technological journals

Access system: With express recognition of the credits concerned

Start-End date: 07/01/2011 - 17/01/2011

22 Name of the activity: Reviewer

Performed tasks: Revisor de artículos científicos para su publicación

Entity where activity was carried out: Analytical Chemistry

Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 16/05/2020

**23 Name of the activity:** Reviewer**Performed tasks:** Revisor de artículos científicos para su publicación**Entity where activity was carried out:** Microchimica Acta**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 2**Access system:** Designated by the corresponding party without competition **Geographical area:** Non EU International**Start date:** 09/12/2015**Other achievements****Stays in public or private R&D centres****1 Entity:** Centro de Astrobiología **Type of entity:** State agency**City of entity:** Torrejon, Community of Madrid, Spain**Primary (UNESCO code):** 230221 - Molecular biology**Start-End date:** 01/10/2009 - 31/05/2019**Goals of the stay:** Post-doctoral**Provable tasks:** In vitro selection and evolution of nucleic acids (RNA and DNA aptamers), bionanotechnology-inspired biosensors (DNA microarray technology, PNA- and aptamer-based sensors,) and sequence-structure-function relationships in viral genomic RNAs by means of AFM**Identify key words:** Biosensors; Nanoparticles; Molecular biology; Nanobiotechnology**2 Entity:** BIOAPTER, S.L.**City of entity:** Las Rozas, Community of Madrid, Spain**Primary (UNESCO code):** 221128 - Surfaces; 230221 - Molecular biology**Start-End date:** 01/05/2008 - 30/09/2009**Goals of the stay:** Contracted**Provable tasks:** Scientific Director**Identify key words:** Nanoparticles; Chemical surface; Nanobiotechnology**3 Entity:** University of East Anglia **Type of entity:** University**Faculty, institute or centre:** School of Chemistry and Pharmacy**City of entity:** Norwich, United Kingdom**Primary (UNESCO code):** 221128 - Surfaces; 230206 - Chemotherapy; 241202 - Antibodies**Start-End date:** 01/06/2006 - 30/04/2008**Goals of the stay:** Post-doctoral**Identify key words:** Nanoparticles; Colloids; Therapeutics**4 Entity:** Centro Nacional de Biotecnología **Type of entity:** State agency**Primary (UNESCO code):** 221128 - Surfaces; 230221 - Molecular biology**Start-End date:** 01/11/2003 - 31/12/2005**Name of programme:** OPTONANOGEN**Goals of the stay:** Post-doctoral**Acquired skills developed:** radio-labelling and fluorescent labelling of DNA oligonucleotides, AFM, SPR, cantilevers biosensing.**Identify key words:** Nanoparticles; Chemical surface; Nanobiotechnology



5 Entity: Biotools, B & M Labs, S.A. **Type of entity:** Business
Primary (UNESCO code): 230200 - Biochemistry; 240300 - Biochemistry; 241500 - Molecular biology
Start-End date: 30/04/2003 - 30/09/2003
Funding entity: Universidad de Alcalá **Type of entity:** University
Goals of the stay: Contracted
Acquired skills developed: Real Time PCR
Identify key words: Molecular biology

6 Entity: Universidad de Alcalá **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina
Primary (UNESCO code): 230100 - Analytical chemistry; 230200 - Biochemistry; 240300 - Biochemistry; 241500 - Molecular biology
Start-End date: 14/02/2000 - 30/04/2003
Funding entity: Universidad de Alcalá **Type of entity:** University
Name of programme: Biomedicina
Goals of the stay: Doctorate
Acquired skills developed: Functionalization of gold nanoparticles with thiolated oligonucleotides. Electrochemistry analysis.
Identify key words: Electrodeposition; Nanoparticles; Colloids

7 Entity: Aptusbiotech **Type of entity:** Business
City of entity: Madrid, Community of Madrid, Spain
Start date: 01/01/2020
Goals of the stay: Contracted
Provable tasks: CSO

Scientific societies and professional associations

Name of the society: Socio
Affiliation entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA
Start date: 02/2013

Summary of other achievements

1 Description of the achievement: Concesión Programa Torres Quevedo. PTQ2018-010067
Accrediting entity: Programa Nacional de Contratación e Incorporación de RRHH de Investigación. MICINN **Type of entity:** State agency
Conferral date: 01/10/2019

2 Description of the achievement: Concesión Programa "Junta para la Ampliación de Estudios" (Doctores)
Accrediting entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Conferral date: 01/10/2011

3 Description of the achievement: Concesión Programa Torres Quevedo. PTQ-08-01-06853
Accrediting entity: Programa Nacional de Contratación e Incorporación de RRHH de Investigación. MICINN **Type of entity:** State agency
Conferral date: 01/02/2009



4 Description of the achievement: Co-fundador de Bioapter S.L.: Technological Company based on the development of aptamers based biosensors and therapies. €1,6 millions investment including promoters

Accrediting entity: BIOAPTER, S.L.

City accrediting entity: Las Rozas, Community of Madrid, Spain

Conferral date: 01/05/2007

Other merits of research activity

R3 Certificate established researcher by State Research Agency in 2023 call