



Società Chimica Italiana

Divisione di Spettrometria  
di Massa

<http://www.spettrometriadimassa.it>

## DSM Speciale GIOVANI: lavori in corso ....

### Posizioni aperte riguardanti la spettrometria di massa



Vogliamo assumere una **Persona** da inserire nel nostro Team di Ricerca & Sviluppo in ambito di **Spettrometria di Massa** applicata alla Cromatografia.

Se hai esperienza nello **sviluppo di metodiche** in GC-MS, GC-MS/MS, LC-MS, saremo molto felici di poter leggere il tuo Curriculum Vitae. Ciò che noi possiamo offrirti è la possibilità di lavorare con strumentazione d'avanguardia quale, ad esempio, sistemi **Orbitrap**<sup>®</sup>, di poterti cimentare nello studio e sviluppo di tecniche di analisi Unknowns mediante software **Compound Discoverer**<sup>®</sup>, di poterti interfacciare e relazionare con prestigiosi Istituti di Ricerca Nazionali ed Internazionali.

In cambio, ti chiediamo di verificare se ti riconosci in questi **Valori**:

- **Innovazione**
- **Prontezza**
- **Rigore**
- **Determinazione**

in quanto essi sono le **Guide quotidiane del nostro Lavoro**. Grazie per il tempo che ci hai dedicato. Puoi inviare il tuo Curriculum Vitae ad [info@eurolabanalysis.com](mailto:info@eurolabanalysis.com)

**Ref. 2018Agro1****Supervisor name and surname:** Juan R Castillo**Title of the research project:**

Towards a sustainable use of new nanobactericides in the frontier of fight with antimicrobial resistance

**Description of the research project:****1.-The idea of the project and where it sits within the state-of-the-art**

The poultry production in Cataluña, Aragón, Navarra and La Rioja is 35 % of the total one in Spain and it has a strong impact in the economy of the Campus Iberus area. Innovative nanotechnological applications have emerged as very useful candidates to develop and transform the agrifood sector, increasing global food production, its nutritional value, quality and safety. The project aims to enhance the microbiological safety (fight against antimicrobial resistance, AMR), assess the adoption of nanoenabled disinfectants and develop new biocides. The project is located on the forefront of the new applications of Nanoscience and Nanotechnology in the agri-food sector and its implementation will promote important technological advances, economical and social benefits

**2.- The objectives of the project, as well as the progress beyond the state of the art**

The general objective is to substitute or reduce considerably the use of antibiotics in poultry farms through bactericidal nanomaterials, validating the effect of nanomaterials based on silver, zinc, or others, including mixtures with natural products with bactericidal activity against the most frequent bacteria species like Salmonella, Campylobacter, Clostridium, Coccidium and Mycoplasma. The project will also verify the effectiveness of different nanomaterials against the most common infections in chicken production, and will tackle the biosecurity of nanoparticles and environmental safety, contributing in an outstanding way to new treatment methodologies to avoid antimicrobial resistance (AMR).

If the project is selected, the Doctoral Thesis supported by the Iberus Talent Program will be centered on the objective cited above, and he will be able to do work and research stays at the University of Lleida (Chemistry Department), at the IPREM-CNRS in Pau (France) as well as in the companies Enosan Laboratories and Abac Therapeutics. The microbiological work will be supervised by Dra. P. Goñi from the Microbiology Department and the "in vivo" assays by the Dr M.Fondevila from the Department of Animal Production, both from the University of Zaragoza

The applicant research group (NANOACT Iberus) will also develop -by other means and in a parallel way- the investigation and optimization of innovative processes to improve the quality of feeding water in poultry farms and to develop and apply new sustainable techniques for the treatment of wastewater products of avian slaughterhouses, generating new efficient and economically affordable decontamination technologies

**3.The linkage of the research project with the suitable Action Plan of Campus Iberus, as well as with any other activity implemented by the Campus of Excellence.**

The project is focused on the Iberus Action Plan "Agro-Food and Nutrition" and the innovation trends identified in section 3:

Nanotechnologies, biotechnologies, extraction technologies, mass screening, bioinformatics.

It will also help to keep a high level of water quality (reducing pollution) and to reuse water from the production processes of the agri-food industry of the aviar sector.

The Iberus Action Plan "Agro-Food and Nutrition" also proposes as Action 1: the search for alternatives in the production of food in order to reduce its allergenicity (gluten-free, lactose-free, without additives) and with fewer chemical contaminants and waste (reduction of use of zoosanitaries, phytosanitaries, etc.). The project, by aiming to reduce the use of antibiotics, fully responds to this action.

Finally, the Pyrenean Strategy document 2018-2024 of the Pyrenees Working Community (CTP) also points in this same direction.

The project is fully integrated into the actions described in the report of the creation of the Iberus NANOBACT Action Group approved in December 2017 by the Campus Iberus

**Deadline: January the 31th, 2019, at 14:00 CET .**

<http://iberustalent.campusiberus.es/en/2018Agro1>



**PREMIO DSM-SCI 2019  
PER GIOVANI OPERANTI NEL CAMPO  
DELLA SPETTROMETRIA DI MASSA**



Scadenza: **1 maggio 2019**



**Prossimi Eventi**



**Le indagini forensi ed il contributo della  
spettrometria di massa**

Direz. Centrale Anticrimine della Polizia di Stato  
**Roma, 1 marzo 2019**



Società Chimica Italiana  
Divisione di Spettrometria  
di Massa



**SHIMADZU**  
Excellence in Science



**GW**  
pharmaceuticals



**Φ**



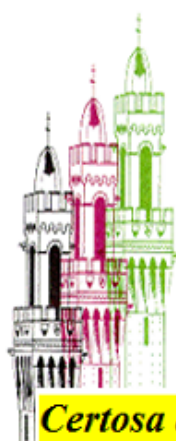
**CNR, ICB  
Pozzuoli (NA)**



estrazione, caratterizzazione e  
dosaggio di endocannabinoidi

**4<sup>th</sup> Pharma School**

**CNR, ICB, Pozzuoli (NA)  
4-5 Marzo 2019**



# 23°

## CORSO DI SPETTROMETRIA DI MASSA 2019

*Certosa di Pontignano (SI), 11 - 15 Marzo 2019*



# 5<sup>th</sup> MS IMAGING SCHOOL

Tissue Molecular MS-imaging

**Univ. Milano Bicocca 16-17 Aprile 2019**



**3<sup>rd</sup> MS-Wine Day**  
May 16 - 17, 2019



**Fondazione E. Mach**  
**San Michele all'Adige (Trento)**

**10 fellowships**

A poster for the 7th MS J-DAY event. The background shows a modern building with a water tower. The text is arranged in a hexagonal grid. The top right hexagon contains '7th MS J-DAY', 'NOI Techpark', 'Bolzano', and '27-05-2019'. The middle hexagon contains 'I GIOVANI E LA SPETTROMETRIA DI MASSA'. The bottom left hexagon contains the logo of the Società Chimica Italiana, 'Divisione di Spettrometria di Massa', and 'Gruppo Giovani'. The bottom right hexagon contains the logo of the Versuchszentrum 'LAIMBURG' and 'Centro di Spettrometria Research Centre'. A mass spectrum graph is visible in the center.

<http://www.spettrometriadi massa.it>