



FEBS3+ XL SEBBM Congress

The Annual Congress of the SFBBM

23-26 October Barcelona2017

- HOME
- WELCOME
- SPEAKERS
- REGISTRATION
- COMMITTEES
- VENUE
- PROGRAM OVERVIEW
- GENERAL PROGRAM
- SCIENTIFIC PROGRAM
 - Plenary Lectures
 - Symposia**
 - Working Groups Meetings
- SATELLITE ACTIVITIES
- ABSTRACTS & POSTERS
- ACCOMMODATION
- SOCIAL PROGRAM
- TRAVEL GRANTS
- AWARDS
- EXHIBITORS AND SPONSORS
- SPONSORS
- CONTACTS
- DOWNLOAD AREA

SCIENTIFIC PROGRAM | Plenary Lectures | **Symposia**

The **Abstract Search** online of FEBS3 Barcelona 2017 is a tool that allows you to select submissions to Congress.

Search criteria are keywords that selectively tracked in titles, abstracts, authors or filiations.

Herraez

Search

Titles Text abstract Authors Filiation Exact Phrase

P09-22

A virtual laboratory to introduce molecular diagnosis techniques in students' training

Ana I. García-Pérez, José C. Díez, **Ángel Herráez**
Biochemistry and Molecular Biology, Dept. of Systems Biology, Universidad de Alcalá, Alcalá de Henares, ES

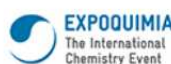
Analytical tests on genetic material are essential in diagnosis of many diseases as well as in pharmacogenetics: the choice of drugs depending on their anticipated efficiency for a particular individual. Limitations in a teaching laboratory regarding the use of samples, techniques and equipment should not prevent the students to receive complete and up-to-date training on these molecular procedures. The use of simulations may fill such a gap, and it is particularly convenient that they are true spaces for experimenting, much better than just animations or videos that always progress in the same way and end with the correct or expected result. We present here a virtual laboratory that may alleviate this shortage; it allows to perform experiments centred on the examination of polymorphic regions of the genome. The techniques offered are fragmentation of DNA using restriction enzymes (RFLP assay), PCR and electrophoretic separation. The system allows the users to design their own experiment and explore conditions, amounts, combinations... The results obtained are not prefabricated, but will depend on the actual conditions used. Such an open exploration may be very significant for assimilation of the underlying scientific concepts, both methodological and diagnostic, and to gain relevant professional abilities like experimental design, observation and analysis of results. This tool is freely accessible (<http://biomodel.uah.es/en/lab/>) and will afford incorporation of virtual practicals in the syllabus, aiming to introduce students in the knowledge of some modern methodologies for genome analysis, which is crucial for their professional future and has applications not only diagnostic but also in fields like forensics, identity testing or food analysis.

[Back to results](#) [Print](#)

Organizers



Institutional Sponsors



Tweets by @SEBBMCongress



XL SEBBM Congress is 1st Joint Meeting of the French-Portuguese-Spanish B&MB Societies (FEBS3+).

[Embed](#) [View on Twitter](#)

CIBERDEM-MSD Symposium
Future Therapies in Diabetes

More information >>>

ENTREPRENEURSHIP FORUM!

More information >>>

ROUND TABLE: Dialogue between Science and Society

More information >>>

KEY DATES

SEPTEMBER 25, 2017

List of Papers accepted >>>

SEPTEMBER 18, 2017

List of Travel Grants >>>

SEPTEMBER 5, 2017

Payment Deadline for Registration with a free abstract

AUGUST 28, 2017

Late/On-Site Registration Opening and payment (no abstract submission)

NEW DEADLINE!

AUGUST 24, 2017

Early Registration Closing

Abstract Submission Closing

Invited Abstract Submission Closing

Deadline for Travel