

International Conference on Toxicogenomics and Drug Monitoring

Date & Venue: August 25-27, 2015 Valencia Convention Center, Valencia, Spain

(Theme: Discoveries in Prediction of Toxicity & Drug Monitoring)

Summary:

Toxicogenomics-2015 welcomes attendees, presenters, and exhibitors from all over the world to Valencia, Spain. We are delighted to invite you all to attend and register for the **"International Conference on Toxicogenomics and Drug Monitoring (Toxicogenomics-2015)"** which is going to be held during August 25-27, 2015 in Valencia, Spain.

The organizing committee is gearing up for an exciting and informative conference program including plenary lectures, symposia, workshops on a variety of topics, poster presentations and various programs for participants from all over the world. We invite you to join us at the Toxicogenomics-2015, where you will be sure to have a meaningful experience with scholars from around the world. All members of the Toxicogenomics-2015 organizing committee look forward to meeting you in Valencia, Spain.

For more details please visit <http://toxicogenomics.conferenceseries.com/>

Importance & Scope:

Current toxicological research concentrates on identifying hazards of chemical compounds and assessing risks of human exposure. These assessments are based on toxicological tests, most using animals as models for man. Despite decades of experience, this risk assessment is still hampered by uncertainties, such as extrapolation of data from animal to man and from short-term experiments in animals to long-term real-life exposure of man. Toxicogenomics - the application of genomics-based technologies in toxicological research - may provide tools to handle these uncertainties. It also offers the opportunity to replace animal tests completely by in vitro assays using animal or human cells. As such, toxicogenomics research combines toxicology with genomics approaches in order to obtain more accurate understanding of toxicological processes. The application of innovative omics-technologies in in vitro toxicology and human health risk analysis can be regarded as the central research paradigm of the Toxicogenomics program.

Toxicogenomics-2015 aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results about all aspects of Toxicogenomics and Drug monitoring. It also provides the chance for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns, practical challenges encountered and the solutions adopted in the fields of Toxicogenomics and Drug monitoring.

Toxicogenomics-2015 is an international platform for presenting research about toxicogenomics, exchanging ideas about it and thus, contributes to the dissemination of knowledge in toxicogenomics for the benefit of both the academia and industry. Toxicogenomics-2015 is where the future of Toxicogenomics and Drug monitoring intersects. This event brings together scientists from academia and industry, working on drug/xenobiotic research in various fields including toxicology, genetics, biochemistry, physiology, basic and clinical pharmacology and therapeutics, drug discovery and development, molecular and structural biology, bio informatics and other related areas.

Why Valencia?

Valencia enjoyed strong economic growth over the last decade, much of it spurred by tourism and the construction industry. Many local landmarks were restored, including the ancient Towers of the

medieval city (Serrano Towers and Quart Towers), and the San Miguel de los Reyes monastery which now holds a conservation library. The city has numerous convention centres and venues for trade events, among them the Feria Valencia Convention and Exhibition Centre (Institución Ferial de Valencia) and the Palau de congress (Conference Palace), and several 5-star hotels to accommodate business travellers.

Valencia is one of Spain's largest cities, and a major centre of economy and industry. Its port, El Grao, is one of the busiest on the Mediterranean coast. The main exports from the city are food and drink (mainly wine, oranges, lemons and rice), furniture, ceramic tiles, fans, textiles and iron products. The city is an important centre for the marketing of agricultural and horticultural produce, especially fruit, most of it flowing into the city from the surrounding region. Valencia itself is a manufacturing centre that focuses on metallurgy, chemicals, textiles, shipbuilding and brewing.

The port of Valencia, which handles 20% of Spain's exports, is the country's biggest port for container traffic. Extensive renovations have been completed and ambitious expansion projects are under way. From mid the Eighties, with the entrance of Spain in the European Community, the flow of immigrants has experienced a remarkable and progressive growth. In those same dates a qualitative change in the type of immigration begins to take place, sending the European presence and increasing coming from Africa and Latin America.

Conference Highlights:

- Toxicology Approaches
- Concept of Toxicogenomics
- Omics Technologies in Toxicogenomics
- Biomarkers in Toxicogenomics
- Drug monitoring
- Predictive Human Toxicity and ADME/Tox Studies
- Genomic Approaches to Predictive Toxicology
- PK and PD Tools for DNA-Damage Pathways
- Adverse Outcome Pathways

Why to attend???

Toxicogenomics 2015 is a platform for the members, researchers, academicians around the world to discuss, share knowledge on the latest and novel technologies being used in the field of predictive toxicology, risk assessment, ways to overcome the toxicity and reduced

animal testing apart from challenges facing during the integration, extrapolation of data and regulatory considerations. The scientific program includes a plenary session, symposia, work-shops, panel discussions, informational sessions, regional sessions, and poster sessions. Toxicogenomics-2015 enhances opportunities for educational development research opportunities and exchange in toxicogenomics and drug monitoring.

A Unique Opportunity for Advertisers and Sponsors at this International event:

<http://toxicogenomics.conferenceseries.com/sponsors.php>

Major Toxicology Associations around the Globe

- International Union of Toxicology
- Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists
- German Society for Experimental and Clinical Pharmacology and Toxicology
- International Society of Regulatory Toxicology and Pharmacology
- Swiss Society of Pharmacology and Toxicology
- American Academy of Clinical Toxicology
- Argentine Toxicological Association
- Austrian Society of Toxicology

Major Toxicology Associations in Europe

- Spanish Association of Toxicology
- Hispanic Organization of Toxicologists (HOT)
- Spanish Society of Clinical Pharmacology
- European Society of Toxicology In Vitro
- Swiss Society of Toxicology
- European Society of Pharmacogenomics and Theranostics (ESPT)
- EUROTOX
- European Center for Ecotoxicology and Toxicology of chemicals (ECETOC)
- The British Toxicology Society
- Royal Society of Chemistry

Statistical Analysis of Associations

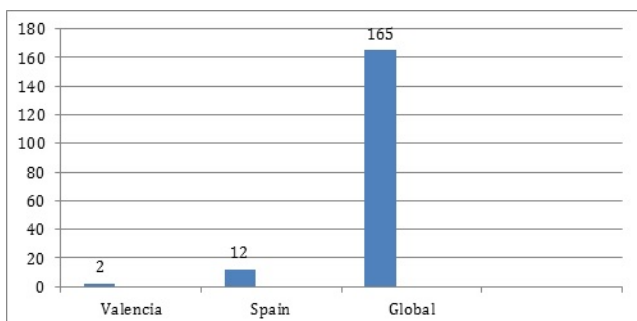


Figure 1: Statistical Analysis of Associations

Target Audience:

Scientists from research institutes and industry, working on drug/xenobiotic research in various fields including toxicology, genetics, biochemistry, physiology, basic and clinical pharmacology and therapeutics, drug discovery and development, drug monitoring, molecular and structural biology, bioinformatics, and other related

areas. Professors and students from academia in the study of Toxicogenomics.

Top Universities in Spain:

- University of Barcelona
- University of Madrid
- Zaragoza University
- University of Granada
- University of Salamanca
- Autonomous university of Madrid
- University of Seville
- University of Almeria
- University of Salamanca

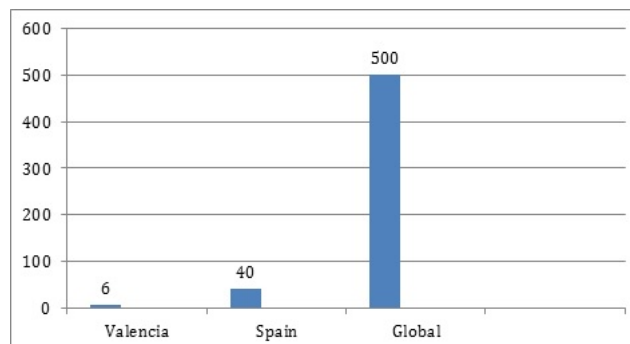


Figure 2: Top Universities worldwide and universities in Spain

Source: Reference2

Companies Associated with Toxicogenomics

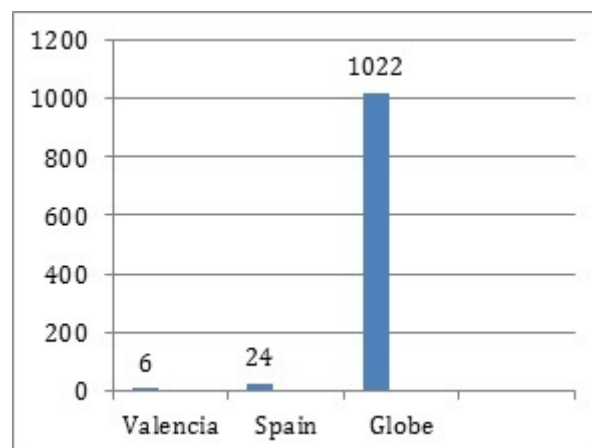


Figure 3: Companies Associated with Toxicogenomics and drug Monitoring

Glance at Market of Toxicogenomics:

The global in-vitro toxicology testing market is estimated to reach \$17,227 million by 2018 at a CAGR of 13.5% during the forecast period (2013–2018). The market will witness a double-digit growth attributed to the increasing acceptance of in vitro methods over in vivo ones. Government support to stop animal testing, new and promising technologies, and advancement in new approaches are significant factors forcing the market in the forecast period.

Initiation of Tox 21, government programs by the U.S. government and growing number of drug discoveries and innovations globally represent an opportunity for the growth of the market. Detection of the toxic effects much earlier in the development stage, the pharmaceutical industry adapted to in vitro methods apart from the rising pressure to reduce the drug attrition rates to control the drug development costs and time line. The pharmaceutical industry has been witnessing a enormous growth as a result of government initiatives such as AXLR8 program that was initiated by the European Union. The cosmetic industry will grow the fastest owing to the amendment of European Union's Cosmetics Directive that has set forth ban on the use of animals in testing for any toxic effects of beauty products. Geographic analysis reveals that Europe was the largest contributor to the global in vitro toxicology testing market in 2013. It will also be the fastest growing region till 2018. The European market is witnessing growth as a result of strong government directives to altogether stop animal testing and replace in vivo testing by in vitro methods.

Global in vitro Toxicology market

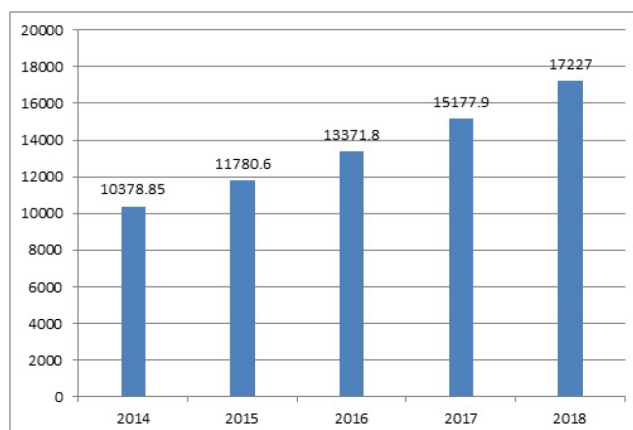


Figure 4: Statistics of Global in vitro toxicology market(In Million \$)

Source: [Reference1](#)

Statistics of Researchers and Academicians working on Toxicogenomics & Drug Monitoring: (Among top 500 universities of world and from the universities of Spain)

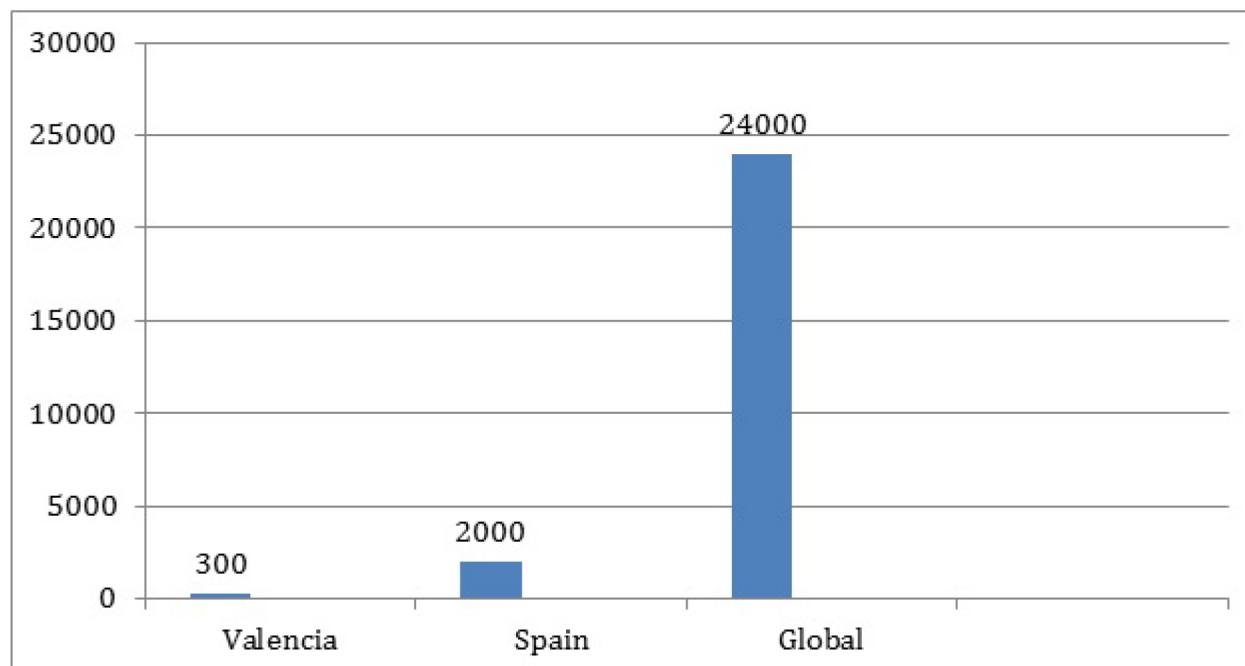


Figure 5: Statistics of researchers working on Toxicogenomics and Drug Monitoring

References:

1. <http://www.marketsandmarkets.com/Market-Reports/in-vitro-toxicology-testing-market-209577065.html>
2. <http://www.shanghairanking.com/ARWU2014.html>