# Spanish Network for the Development of **Alternative Methods**



# Red Española de Métodos Alternativos

#### **About REMA**

The increasing social and scientific sensitivity in favour of the development and implementation of experimental procedures alternative to the use of laboratory animals has been the driving force leading to the idea of a network to agglutinate the current initiatives in Spain.

The Spanish Network for the Development of Alternative Methods (REMA) was the result of the initiative and fruitful work of a two-year Task Force (J.V. Castell, D. Gargallo, A. López de Cerain, E. de la Peña, G. Repetto and E. Vilanova). REMA was officially presented to the public opinion on 1<sup>st</sup> December 1999 in a meeting organized at the Ministry of Health under the sponsorship of Her Majesty the Queen of Spain, and was attended by more than 150 experts.

There is presently great social, scientific, economical and industrial pressure to develop and implement methods capable of offering an alternative to animal experimentation. In this sense, and considering that a number of national organizations have arisen in the past 20 years in the European setting to channel this demand, the need has been postulated to create a similar organization in Spain. Such an organization would serve to establish connections with the Administration, Industry and the groups, entitles and societies interested in such animal alternatives.

REMA (Red Española para el Desarrollo de Métodos Alternativos) aims to integrate Administration, Academia, Industry and Society representatives (animal welfare societies) to coordinate efforts for the implementation of the 3R's principles in Spain. This will include organisation of courses and scientific meetings, round tables, technical courses on validated and candidate methods, etc. Participation in REMA is open to scientific societies, industries, government agencies, animal welfare societies and individuals. REMA is an open scientific society and will adopt the structure of a public interest Foundation.

#### REMA is founding member of ECOPA (European National Platforms on Alternative Meth

ebsite containing the essentials of REMA and its organisation is available at ://www.remanet.net; Rema's email: remanet@remanet.net

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□Spreading Information on 3Rs
One of the main objectives of the REMA is to guarantee the maximum diffusion of information conclinitatives in the field of Animal Alternatives both in Spain and Spanish speaking countries.

Collaboration with the network established by the Working Group Specialized in Alternative Methods of the Spanish Association of Toxicology (Grupo de Tratejo Especializado en Métodos Alternativos de la Sociedad Española de Toxicología, GTEMA) (about 100 member expert registered)
List Server "JERRES (about 360 member registered) - through which experts in Spain and other countries receive last-minute information
Web Page of REMA and communications to interested people registered
The exchange of information it is sought to be an eminently interactive process.

**ACTIVITIES OF REMA** 

One of the main reasons for establishing REMA is to secure coordination among Spanish groups for organizing formative courses and scientific events in Spain and/or abroad.

\*REMA intend to contribute improving coordination among initiatives, thereby avoiding unnecessary repetitions and overlapping of dates or topics and integrating willingness of the different entities.

\*REMA is organizing scientific events under the initiative of REMA (i.e., Conferences, Courses, Workshops, Round Tables, Sessions, Meetings etc.), and is also collaborating with scientific societies in organizing activities (courses, workshops) about alternatives as parallel meetings.

\*Special efforts have been done in the last years to organize courses oriented to people involved in Bioethical Committees in Universities and Research Institutions. We are involved in elaborating programs for qualifications of personal in charge of animal care, handle and research in cooperation to ICLAS Spanish committee under the FELASA guidelines (category B, C and D). (2005-09) and complete the programs of the control of the programs of the cont

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## **ACTIVITIES: EUROPEAN RESEARCH PROYECTS**

START-UP: Scientific and Technological issues in 3Rs Alternatives Research in The process of drug development and Union Politics:
The START-UP project concerns the identification and proposals to abolish bottlenecks in the 3Rs approach in pharmaceutical discovery and development. The goal of the project is organizing 3 Workshops to determine the state of the art of each of the 3Rs in the EU, assess European strength and gaps in 3Rs and identify rate limiting steps on a scientific and technological level, resulting in a Consensus Paper containing concepts and suggestions for a Road Map for future research.

Stakeholders (among them European Pharmaceutical Industries) have identified bottlenecks in drug development and in the integration of *in vitro* methods. Early identification of wrong candidates for further development and avoiding efforts for under-performing candidates are essential for the competitiveness of European Industry. Identification of butlenecks in the implementation of the 3Rs in drug R&D should help identifying the best *in vitro* and *in vivo* systems, and to speed up the drug development process. Existing hurdles in the scientific, technological, ethical, regulatory and political level, play a substantial role and are rate-limiting in developing new drugs, including biological entities.

#### CONAM (Consensus networking on alternative methods within Europe):

The CONAM project was proposed by ECOPA. The objective of CONAM is to build a solid network on 3R-alternatives, ideally including all European countries and with the aim to deliver critical consensus expert opinions on 3R-issues, to draw attention on new alternatives and technologies, to disseminate this information and to initiate collaboration. REMA had a very active participation in its design and its

### Ongoing EU Projects: FORINVITOX

This European project aimed to promote the transfer of animal alternative toxicity test developed by inventors to potential users.

The project was structured in 6 work packages (WP): WP 1. Retrieval of information from the research projects developed in the Framework Programmes

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WP 1. Retrieval of information from the research projects developed in the Framework Programmo5<sup>th</sup> and 6<sup>th</sup>.

WP 2. Investigation on the needs of enterprises. An enquiry was sent to companies representing many fields of application for *In vitro* toxicity tests.

WP 3. Analysis of which type of companies are involved in the manufacturing of *In vitro* methods.

WP 4. Analyze the data from the precedent work packages and to prepare a working document summarizing these data.

WP 5. Forum-event to meet in contact all the stakeholders in order to identify the initiatives with major probabilities to succeed in transferring knowledge to usable products.

After the Forum event, a White Book will be presented with an analysis of current situation and recommending actions to follow at European level

WP 6. General management work package.

# FORUM EVENT (Final action of ForInVitox)

The event aimed to bridge the gap between inventors, manufactures and users of in vitro

- Topics discussed in the forum:

   Areas in which toxicologist research needs to develop new methods.

   Characteristics and requirements (GLP) of in vitro models to be used as toxicity tests.

   Needs of transferring technology from academic systems to industry. This can be made firstly by contacting final users, researchers and producers.

   Accelerate the process of validation of methods in order to be more effective.

   A meeting place was performed in order to promote the commercial use of in vitro methods and to facilitate interactions of the inventors, manufacturers and the final users.

alternatives and technologies, to disseminate	<ul> <li>Put Pressure to Increase of the acceptability of methods by regulatory authorities</li> </ul>
a very active participation in its design and its	

#### **Entities supporting REMA** - AEFI, Asociación Española de Farmaceuticos de la Industria Almirall Prodesfarma AET, Asociación Española de Toxicología Anfaco-Cecopi - APE, Asociación Primatológica Española - ASEICA, Asociación Española de Investigación sobre el Cáncer Farmaindustria - Comité Español de ICLAS/CSIC Grupo Ferrer - GTEMA, Grupo de Trabajo Especializado en Métodos Alternativos Procter and Gamble SEBBM, Sociedad Española de Bioquímica y Biología Molecular SEBC, Sociedad Española de Biología Celula STANPA- Asoc. Nac. de Perfumería y Cosmética SECAL, Sociedad Española de Ciencias del Animal de Laboratorio VETERINDUSTRIA SECCE. Sociedad Española de Ciencias Fisiológicas Noscira SA (Zeltia Group) SEEA, Sociedad Española de Experimentación Animal - SEF. Sociedad Española de Farmacología - SEN, Sociedad Española de Nutrición SENBA, Sociedad Española de Nutrición BA MSvPS-, Subd. de Productos Sanitarios - SEMA, Sociedad Española de Mutagénesis Ambiental Miner- Ministerio de Industria y Energía - SEQC, Sociedad Española de Químicos Cosméticos Ministerio de Ciencia e Innovación OCyT- Oficina de la Ciencia y Tecnolo Ministerio de Medioambiente Medio Rural y Marino - ADDA, Asociación para la Defensa de los Derechos del Animal **ECVAM** AEBI, Asociación Española de Bioética ICLAS Working Group on Complementary Meth -ANDA, Asociación Nacional para la Defensa de los Animales ECOPA Instituto de Salud Carlos III. IUTOX

# Parque Tecnológico de Barcelona

CSIC- Centro de Ciencias Medioambientales

Instituto Nacional de Toxicología (Sevilla)









#### INTERNATIONAL RELATIONSHIPS WITH ENTITIES

Members of REMA are involved in several International Committees:

- ECVAM (Scientific Advisory Committee)
- ESTIV (Directive Committee)
- INVITOX (Scientific Committee)
- ETCS (Directive Committee)
   ILSI (Scientific Committee)
- ICLAS (Spanish Committee)

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