

## Preliminary Program

### Opening Session

**Session 1 – Systemic approaches to toxicity testing**

**Session 2 – From in vivo tests to high throughput in vitro tests**

**Round table - Toxicity Testing in the 21st Century**

### Speakers

**Emilio Benfenati** (Istituto di Ricerche Farmacologiche "Mario Negri", Milano, Italy)

**Jürgen Borlak** (Fraunhofer Institute of Toxicology and Experimental Medicine; Hannover, Germany)

**John R. Bucher** (National Institute of Health, Research Triangle Park, NC, USA)

**Jose V. Castell** (Hospital Universitario La Fe, Valencia, Spain)

**Joachim Coenen** (Merck Serono, Darmstadt, Germany)

**Emanuela Corsini** (Università di Milano, Milano Italy)

**Corrado Galli** (Università di Milano, Milano Italy)

**Thomas Hartung** (Johns Hopkins University, Baltimore, MD, USA)

**Hector Keun** (Imperial College London; London, UK)

**Richard Currie** (Syngenta Jealotts Hill International Research Centre, Bracknell, UK)

**Aldert H. Piersma** (National Institute for Public Health and the Environment RIVM; Bilthoven, The Netherlands)

**Gian Paolo Rossini** (Università di Modena e Reggio Emilia; Modena, Italy)

**Troy Seidle** (Humane Society International, London, UK)

**Odile de Silva** (L'Oréal, Paris, France)

**Horst Spielmann** (Freie Universität Berlin, Germany)

**Maurice P. Whelan** (European Commission Joint Research Centre, Ispra, Italy)

Toxicity testing is posing increasing challenges to health care, industry, the research community, as well as the society as a whole. The complexity of issues at stake is matched by the recognition of theoretical, operational, methodological, and economical constraints that may hamper the efficacy of current procedures in toxicity testing. Likewise, the same constraints have been a powerful drive for the development of new methods, technologies, and scientific approaches to tackle difficulties and overcome bottlenecks.

Building up on recent advances in bio-medicine and biotechnology, the US National Research Council has issued a report entitled "*Toxicity testing in the 21st century - A vision and a strategy*", describing a transformative paradigm shift in toxicity testing, "...(1) to provide broad coverage of chemicals, chemical mixtures, outcomes, and life stages, (2) to reduce the cost and time of testing, (3) to use fewer animals and cause minimal suffering in the animals used, and (4) to develop a more robust scientific basis for assessing health effects of environmental agents."

This workshop is intended to foster discussions aimed at supporting thinking, research activities and action in the area of toxicity testing, in a perspective of alternative strategies based on the paradigm shift from analysis of apical end-points in animal system towards a clarification of toxicity pathways using cells or cell lines.

### Scientific and organizing committee

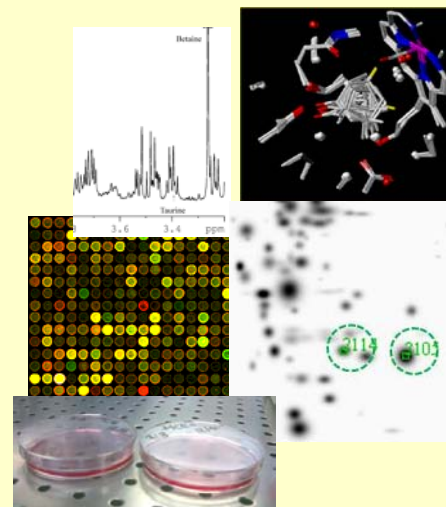
Isabella De Angelis  
Franca Fassio  
Adela Lopez de Cerain  
Luca Nava  
Gian Paolo Rossini  
Anna Laura Stamatii

### For more information, please contact:

Gian Paolo Rossini, [gianpaolo.rossini@unimore.it](mailto:gianpaolo.rossini@unimore.it)  
Isabella De Angelis, [isabella.deangelis@iss.it](mailto:isabella.deangelis@iss.it)



## Toxicity Testing in the 21st Century and Alternative Methods



Workshop organized by

**Italian Platform on Alternative Methods**

**European Consensus-Platform for Alternatives**

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