

Workshop Accommodation

The NoMiracle Secretariat has made preliminary room reservations for the workshop participants. Please make your reservation directly to the hotel as soon as possible to ensure accommodation. The number of reserved rooms is limited and the price for a single room incl. breakfast is **134 €** if you mention "NoMiracle Workshop". Please be aware that after July 25th we cannot guarantee price and availability.

The venue is at:



Mercure Hotel & Residenz Frankfurt Messe
Voltastrasse 29, D-60486 Frankfurt.

Tel : (+49)69/79260 - Fax : (+49)69/79261606

@ : h1204@accor.com

Web-site: http://www.mercure.com/mercure/fichehotel/gb/mer/1204/fiche_hotel.shtml

How to reach the Workshop Venue?

Main types of transportation and access

Nearby airport:

Frankfurt International Airport.

Hotel can be reached by train. Choose "West station (Westbahnhof)"
– it is a five minutes walk from the hotel

Underground station:

Line S3, S4, S5, S6

Westbahnhof (five minutes walk)

Tram 17

Kuhwaldstrasse (directly in front of hotel)

Registration

Please fill in the attached registration form.

Note that the number of participants is limited to 80 persons.

Costs

Workshop fee: **164 €**

The accommodation and the workshop fee should be paid at the hotel.

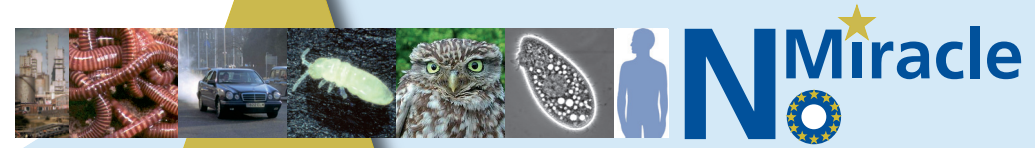
Two lunches, conference dinner, and 4 coffee breaks will be served at the conference site.

Please note that participants not showing up will be charged on the credit card drawn on the registration form.

Further information

nomiracle@dmu.dk (NoMiracle Secretariat in Denmark) or

<http://nomiracle.jrc.it>



NoMiracle Workshop on

Integrated Assessment of Environmental and Human Health

**Frankfurt, Germany
8-9 September 2008**

Background

Each and every day your body encounters a complex array of physical, chemical and biological environmental stressors. We are never subject to single stressors at set doses, but a complex mix over a long period of time. The health effects of such may be very different to the effects of any single agent so it is important to develop models to assess the cumulative effects of these types of realistic modern day exposure scenarios.

The NoMiracle Integrated Project unites scientists from a wide range of disciplines including human toxicology and epidemiology, aquatic and terrestrial ecotoxicology, environmental chemistry/biochemistry, toxicogenomics, physics, mathematical modelling, geographic informatics, and socio-economic science. Together they will work to address some of the shortcomings in existing models and methodologies. In particular they work on understanding the nature of environmental stressors, such as chemicals, and how these may act together during mixed or cumulative exposure.

To meet its objectives, the NoMiracle project includes laboratory studies, including ecotoxicological studies and the production of new cell lines for in vivo studies into the biological effects of pollutant mixtures, especially their cumulative effects. Results from laboratory tests will be incorporated into probabilistic models that statistically describe mixtures of compounds. Other studies will look at how chemical mixtures move through the environment and how they are taken up and metabolised in test models and humans. The findings will link up information concerning the quality of air, water, soil and the built environment with human and ecosystem health-monitoring data.

A large part of the project's remit is to develop tools and frameworks that account for cumulative and complex exposure scenarios. To achieve this, NoMiracle partners are combining their own experimentation with existing data to produce software and statistical analyses of exposure and health risk across Europe, taking into account geographical, ecological and cultural differences in risk concepts and risk perceptions. These measurement and simulation studies are aimed at reducing the uncertainty in current risk assessments and provide a more solid scientific basis for setting safety factors and implementing guidelines and regulations for chemicals or other environmental stressors. In this way, NoMiracle is making an important contribution to Europe's environmental and health initiative.

Scope

This 4th NoMiracle Workshop will serve as platform to inform industry, governmental authorities and academia about the novel methods and procedures developed, and about their scope in the context of EU-wide regulations concerning the human and environmental hazard and risk associated with chemical substances in the environment such as REACH, the Water Framework Directive, and Directives concerning biocides and pesticides. The workshop will address two major issues, namely new developments in methods for assessing the effect of mixtures of chemicals and of combinations of chemicals and natural stressors, and how to achieve more effective integration of the risk analysis of environmental and human health effects.

Topics

- Integration of human and ecological exposure assessment
- Mechanistic approaches to mixture / cumulative stressor assessment
- Extrapolation of effects data
- Combined effects of natural stressors and chemicals
- Integration of environment and health methodologies

The topics of the workshop will include studies of different stress agents (chemical mixtures, multiple sources, chemicals and other agents), time scales (also inter-generational) and receptors (human and non-human, age groups), endpoints and consequences, and stages of activity (research or testing – assessment – management – monitoring). The topics include investigations on the uptake, elimination and metabolism kinetics of chemicals in test organisms, upon exposure in soil or water, and methods for pharmacodynamical analysis of chemical mixtures. The area of uncertainty analyses will be included, helping elucidate the relative share of the human and non-human components in the overall uncertainty and the options for integration across receptors and sectors. Further, the development of new methods for comparative risk assessment by integration of mixture toxicity and natural stressors will be addressed, as well as pre-normative research on improving the current state of measurements and testing for testing of combined stressors, and for indicators for monitoring of populations of humans (indoor and outdoor) and species in the environment.

Venue

Mercure Hotel & Residenz Frankfurt Messe
Voltastrasse 29
D-60486 Frankfurt

Workshop duration

8th September, 9:00 (registration) – 9th September, 16:00 hours

Organising Committee

Morten Strandberg, AU, Denmark
Lene Birksø Bødskov, AU, Denmark
Dave Spurgeon, NERC, UK
Hans Løkke, AU, Denmark (chair)

Further information

nomiracle@dmu.dk
or web-site: <http://nomiracle.jrc.it>