



Programme



PARTNERING WORKSHOP

January 21, 2008,

Hotel Serhs Campus

Vila Universitària (Campus UAB),
CERDANYOLA DEL VALLÈS,

Barcelona, Spain

ERA-NET

PathoGenoMics

*Applied pathogenomics:
Prevention, diagnosis, treatment and
monitoring of infectious diseases*

www.pathogenomics-era.net

ERA-NET PathoGenoMics

*Trans-European cooperation and coordination of genome sequencing and
functional genomics of human-pathogenic microorganisms*

PROGRAMME OF THE PARTNERING WORKSHOP

Sunday, January 20, 2008

18.00 - 19.30 Registration

19.00 - 23.00 Get-together (*Catalan buffet*)

Monday, January 21, 2008

8.30 - 9.30 Registration

9.30 - 9.50 **ERA-NET PathoGenoMics: The 2nd Call on pathogenomics**
(Benny Leshem, Julio Barbas)

9.50 - 10.40 SESSION 1 (*10 min presentations*)

Tanja Kostic, Austria: ARC microbial diagnostic microarrays for environmental and food analysis

Paulino Gomez-Puertas, Spain: In-silico drug design.

Guido Krupp, Germany: Nanosamples for genome-wide bacterial gene expression studies
Selective amplification of prokaryotic mRNAs - without any enrichment step

Christa Noehammer, Austria: Comprehensive microarray platform at the Austrian
Research Centers serving the development of assays for medical diagnostics

Christophe Roos, Finland: A generic information model for biological data integration and
analysis

10.40 - 11.00 Discussion

11.00 - 11.30 Coffee at the posters

11.30 - 12.20 SESSION 2 (*10 min presentations*)

Josef Deutscher, France: Relationship between metabolism and virulence in certain
bacterial pathogens

Ignacio López-Goñi, Spain: Relationship between carbon metabolism and virulence in
intracellular pathogens: developing a combined growth medium-DNA typing tool applicable to
the direct diagnosis and identification of *Brucella*.

Junkal Garmendia, Spain: Subversion of host cell functions by bacterial respiratory
pathogens

Susana Merino Montero, Spain: Molecular pathogenesis in *Aeromonas*

12.20 - 12.30 Discussion

12.30 - 13.45 Lunch

13.45 - 14.45 **SESSION 3: Public-private research collaboration: Key issues for a successful collaboration.** Public-private research collaborations are an important goal of this call. Therefore intellectual property (IP) and technology transfer issues will be discussed: "*How IP protection and academic publication are pursued successfully in parallel? What to consider in a European context?*"

Speakers:

Aude Sirven (Agence Nationale de la Recherche ANR, France)

Jurgen Bauer (EMBLEM Technology Transfer GmbH, Germany)

Juan Martinez-Armesto (Oficina de Transferencia de Tecnología, SSPA, Spain)

14.45 - 15.25 **SESSION 4 (10 min presentations)**

Francisco Ramos-Morales, Spain: Type III secretion systems in *Salmonella enterica*

Agnes Csanadi, Hungary: Genes responsible for intracellular survival in mycobacteria and chlamydiae

Danijel Besic Loredan, Slovenia: 1. Detection of prosthetic joint infection in septic and aseptic loosening. 2. Susceptibility for infection of conventional orthopedic implants

Célia Pais, Portugal: Emergence and evolution of denture-related stomatitis: Role of the oral microbial community.

15.25-15.45 Discussion

15.45 - 16.15 Poster session with coffee

16.15 - 17.15 **SESSION 5 (10 min presentations)**

M. Lorenz, Germany: Enhancement of pathogen detection in molecular clinical diagnosis and applied testing by targeted nucleic acid isolation

Lluís Ribas de Pouplana, Spain: Positive selection of protein translation inhibitors

María-José Ferrándiz, Spain: Study of the fluoroquinolone targets in *Streptococcus pneumoniae*: regulation of *gyrA* expression and interspecific transfer of resistance.

Marc A. Marti-Renom, Spain: Genome-wide characterization of structural determinants of the evolution of *Mycobacterium tuberculosis* drug resistance.

Manuel J. Rodríguez Ortega, Spain: New proteomic approaches for identifying vaccine candidates in pathogenic Gram-positive bacteria

Juan Tomás Magaña, Spain: Lipopolysaccharides with design: a new way to obtain vaccines from *E. coli* cells

17.15 - 17.45 Discussion

POSTERS

1. **Jordi Barbe Garcia, Spain:** Identification of novel targets for antibacterial compounds development
2. **Victor J. Cid, Spain:** Yeast as a tool to find and assess the function of bacterial virulence factors
3. **Miklos Fuzi, Hungary:** Trends and shifts in ESBL production in *Klebsiella* spp. in Hungary
4. **Gerhard Heusipp, Germany:** Regulatory networks controlling virulence factor expression in *Yersinia enterocolitica*
5. **Guido Krupp, Germany:** Nanosamples for genome-wide bacterial gene expression studies. Selective amplification of prokaryotic mRNAs - without any enrichment step (poster + talk)
6. **Yvette Mandi, Hungary:** The role of genetic polymorphisms of NOD1 , TLR4, IL-8 and defensin genes in *Helicobacter pylori*-induced duodenal ulcer and gastritis
7. **Susana Merino Montero, Spain:** Molecular pathogenesis in *Aeromonas* (poster + talk)
8. **Juan Tomás Magaña, Spain:** Lipopolysaccharides with design: a new way to obtain vaccines from *E. coli* cells (poster + talk)

**THE SECOND MULTINATIONAL CALL of THE ERA-NET PathoGenoMics:
*Applied pathogenomics: Prevention, diagnosis, treatment and monitoring
of infectious diseases.***

The ERA-NET PathoGenoMics has been set up to coordinate funding on genomic research of pathogenic microorganisms in member states and associated states of the EU. The ERA-NET's aims are to achieve a critical mass in terms both of research capacity and know-how and to avoid duplication of funding efforts.

Under the umbrella of the ERA-NET PathoGenoMics

- the Federal Ministry for Science and Research (BMWf) and the Austrian Science Fund (FWF), Austria,
- the Academy of Finland (AKA), Finland,
- the National Agency for Research (ANR), France,
- the Federal Ministry of Education and Research (BMBF), Germany,
- The Hungarian Scientific Research Fund (OTKA) and the Hungarian Academy of Science (HAS), Hungary
- the Science and Technology Foundation (FCT), Portugal,
- the Ministry of Higher Education, Science and Technology (MHEST), Slovenia and
- the Ministry of Education and Science (MEC), Spain

have jointly launched the second joint call for multilateral research projects. The call is to be opened simultaneously by the participating organizations in their respective countries.

Funding will be provided for transnational, collaborative projects based on a division of labour with a high degree of innovation and scientific and technical risk. Project proposals should focus on **prevention, diagnosis, treatment** or **monitoring** of diseases caused by bacterial and fungal pathogens of humans.

The projects must be based on genome-wide approaches. Furthermore, they must

- 1) show a close cooperation between academic and clinical or industrial participants,
- 2) convincingly present the application (exploitation) of the project results and
- 3) demonstrate a clear benefit to the public.

Each collaborative project should

- have the optimal critical mass to achieve ambitious scientific goals,
- clearly show an added value from working together,
- have a maximum of seven project participants from a minimum of three countries participating in the call and
- include academic and clinical or industrial participants.

Part of the funding is dedicated especially to consortia of young scientists. All project leaders of such consortia must be *young scientists* (min. 2 years and max. 9 years after finishing their PhD). Funding will be granted for a maximum of three years.

Each funding organization funds research entities located on its own country.

The deadline for submission of pre-proposals is February 29, 2008, and for full proposals May 15, 2008. The information given in the pre-proposals is binding.

The whole call text and other documents related to the call can be found at:
www.pathogenomics-era.net