



Translating research for human health – Major Infectious diseases

The activity: **'Translational research in major infectious diseases: to confront major threats to public health'** is divided into four main areas of research: 'Anti-microbial drug resistance including fungal pathogens'; 'HIV/AIDS, malaria and tuberculosis'; 'Potentially new and re-emerging epidemics' and 'Neglected infectious diseases'.

Anti-microbial drug resistance including fungal pathogens

The strategic objective of 'anti-microbial drug resistance' is to confront the increasing emergence and spread of microbial drug resistant pathogens in Europe and the rest of the world at broad fronts and in a multidisciplinary approach through the development of effective infection prevention and control strategies.

Topics for second call – *Deadline 18 September 2007*

- Novel targets for drugs against Gram negative bacteria

*Funding scheme: Collaborative Projects
(small or medium-scale focused research projects with maximum contribution of € 6.000.000/project)*

- Host-pathogen interactions in infections by *Streptococcus pneumoniae*

*Funding scheme: Collaborative Projects
(small or medium-scale focused research projects)*

- An integrated platform for development and clinical evaluation of point-of-care diagnostic devices for microbial detection, antibiotic susceptibility determination and biomarkers

*Funding scheme: Collaborative Projects
(large scale Integrating projects)*

- Molecular epidemiology to control nosocomial and community spreading of highly virulent multi-drug resistant strains of bacterial pathogens.

*Funding scheme: Collaborative Projects
(small or medium-scale focused research projects)*

- Health and economic cost of antimicrobial resistance
- Conference on genetic and biochemical tools for post genomic physiological analysis of *Staphylococcus*, in particular MRSA

Funding scheme: Coordination and Support action

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HIV/AIDS, malaria and tuberculosis

Under the area 'HIV/AIDS, malaria and tuberculosis' research will focus on developing new therapies, diagnostic tools, and preventive tools such as vaccines and chemical barriers such as HIV microbicides. Research efforts will confront the three diseases at global level, but will also address specific European aspects of the three diseases as hepatitis co-infection. Preclinical and early clinical research activities will be emphasised.

Topics for first call – *Deadline 19 April 2007*

- HIV/AIDS Drug Discovery and Preclinical Development
- Highly Innovative approaches for research into host pathogen interaction in tuberculosis
- Development of fast tests for the diagnosis of Multi-Drug Resistant strains of HIV, malaria and tuberculosis, and of latent tuberculosis infection.

- Addressing knowledge gaps in pregnancy malaria

Funding scheme: Collaborative Projects (small or medium-scale focused research projects)

- Paediatric formulation of drugs against HIV/AIDS, malaria and tuberculosis

Funding scheme: Coordination and Support action

- New HIV Vaccines inducing broadly-reactive neutralising antibodies

Funding scheme: Collaborative projects (large scale Integrating projects)

Topics for second call – *Deadline 18 September 2007*

- Network on HIV and anti HIV drug resistance
- HIV and hepatitis co-infection

Funding scheme: Coordination and Support action

- Blocking the transmission of malaria: the mosquito vector target

- European network for study and clinical management of TB drug resistance

Funding scheme: Collaborative projects (large-scale Integrating projects)

- Support platform for the development of PRD vaccines

Funding scheme: Coordination and Support action

Topics for Specific International Cooperation Action (SICA) – *Deadline 18 September 2007*

- Highly innovative research in HIV/AIDS, malaria and tuberculosis between Indian and European partners

Funding scheme: Collaborative Projects (small or medium-scale focused research projects)

- Coordination of European research activities with global initiatives, including Public-Private Partnerships

Funding scheme: Coordination and Support action

- Next Generation of researchers for HIV/AIDS, malaria, tuberculosis and neglected infectious diseases

Funding scheme: Coordination and Support action

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Potentially new and re-emerging epidemics

The area related to 'Potentially new and re-emerging epidemics' intends to confront emerging pathogens with pandemic potential including zoonoses (e.g. SARS and highly pathogenic influenza). Call topics aim to cover the full 'value chain' of health research: from innovative basic research to early stage clinical trials of new prevention, diagnostic and therapeutic measures all the way to implementation research supporting effective public health responses.

Topics for first call – Deadline 19 April 2007

- Development of broadly protective influenza vaccine candidates

Funding scheme: Collaborative Projects (small or medium-scale focused research with maximum EC contribution of €6.000.000/ project)

- Identifying immunological mechanisms of protection for influenza vaccines

Funding scheme: Collaborative Projects (small or medium-scale focused research projects)

- Standardisation of immunological assays including surrogate markers for evaluation of new influenza vaccines in clinical trials

Funding scheme: Coordination and Support action

- Innovative point-of-care diagnostic tests for influenza
- Development of additional treatment strategies for patients suffering from highly pathogenic influenza
- Development of pandemic influenza containment and mitigation strategies

Funding scheme: Collaborative Projects (small or medium-scale focused research projects)

- Supporting highly innovative inter-disciplinary research on influenza

Funding scheme: Collaborative Projects (small or medium-scale focused research with maximum EC contribution of €1.500.000/project)

Topics for Specific International Cooperation Action (SICA) – Deadline 19 April 2007

- Influenza research in collaboration with Asian partners

Funding scheme: Collaborative Projects (small or medium-scale focused research projects)

Topics for Second Call – Deadline 18 September 2007

- Strengthening research on prediction, identification, modelling and surveillance of newly emerging infectious diseases in humans

Funding scheme: Collaborative projects (large-scale integrating projects)

- Definition of research needs and priorities in Europe in the area of Emerging Infectious Epidemics

Funding scheme: Coordination and Support action

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Neglected infectious diseases

Under the area 'Neglected infectious diseases', research will focus on an integrated approach for the development of preventive, therapeutic and control tools for neglected infectious diseases: diseases caused by Trypanosomatidae species and a wider range of vector-borne diseases, as well as other neglected infectious diseases, including childhood infections.

Topics for Specific International Cooperation Action (SICA) – Deadline 18 September 2007

- Development of new tools to control infections due to parasites of the Trypanosomatidae family.
- Development of a Leishmania vaccine
- Bio prospecting for drug leads

Funding scheme: Collaborative Projects (small or medium-scale focused research projects)

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