

Fondation Mérieux

Mission and Activities

**Testes de Diagnóstico in Vitro Acessíveis e com
Qualidade Assegurada para Programas de Saúde
Pública**

Brazil – April 2012

JF de Lavison



OUR ROOTS

A family committed to biology and global public health



MISSION



‘Strengthen local capacities in developing countries to reduce the impact of infectious diseases on vulnerable population’

*In partnership with Fondation
Christophe et Rodolphe Mérieux
(Institut de France)*



OUR STRATEGY

1. Strengthen **local clinical biology and applied research capacities** for a better identification of infectious diseases.
2. Increase **the access, for vulnerable populations, to a quality biological diagnosis** for an appropriate treatment
3. Promote, through Les Pensières Conference Centre, **exchange between public health actors to contribute to the diffusion and the development of knowledge on infectious diseases**, and foster the emergence of innovative projects.



4 INTEGRATED FIELDS OF ACTIVITIES

Strengthening health infrastructures



Training and knowledge sharing



Applied research programs



Mother and child support



STRENGTHENING OF HEALTH INFRASTRUCTURES



hôpitaux
collaboration
sur le terrain
laboratoires de référence
autonomie
Biologie clinique



LABORATORIES SITUATION



APPLIED RESEARCH PROGRAMS



scientific grants

concrete solutions

emerging pathogens

network



APPLIED RESEARCH STRATEGY

Targeted Diseases

➤ **MULTI RESISTANT TUBERCULOSIS**

➤ **RESPIRATORY INFECTIONS**

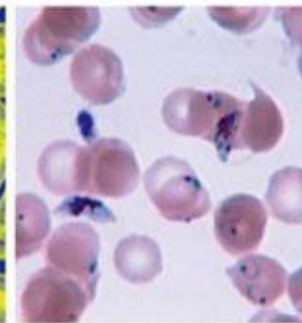
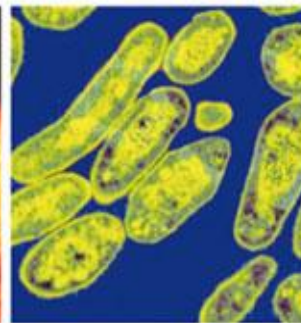
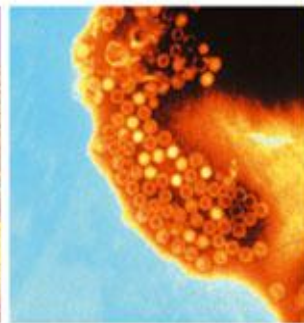
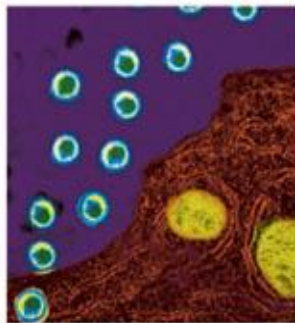
➤ **LOCAL PRIORITIES:**

malaria, dengue, leptospirosis, typhoid fever, encephalitis, chagas disease



• *Emerging Pathogens Laboratory Lyon*

• *Christophe Mérieux Laboratory - Beijing*



THE GABRIEL NETWORK



Create a research community around the Rodolphe Mérieux Laboratories

■ Transfer of technologies and knowledge

- laboratory expertise in the field of infectious diseases
- evaluation and tests development for pathogens detection
- common tools (data base, procedures, reagents, online portal, logistic, biosecurity, ethic, publications)
- research trainings for scientists and local technicians

■ Multicentric projects on epidemiological projects

- respiratory infections
- resistant tuberculosis

■ Support to local projects: tuberculosis, malaria, fevers, HIV

■ More than **45 researchers in 11 countries** in Asia, Middle-East, in Africa, in Latine America, the Carribean and in Europe

■ **Budget 2010:** 640 000€ of which 65% are covered by European Commission (project ReST-ACMI)





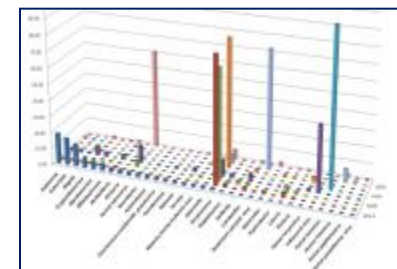
Christophe Mérieux Laboratory (CML), Institute of Pathogen Biology, Chinese Academy of Medical Sciences – Fondation Merieux



Missions and Major Achievements (ReST)

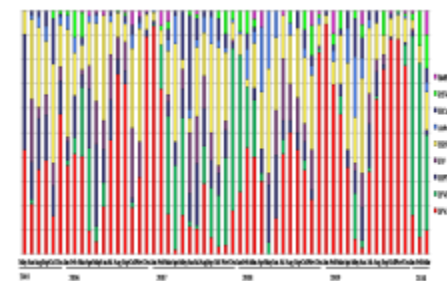
□ Research

- Development of technologies for multiple pathogen detection and unknown virus identification
- First spectrum of respiratory virus infection in Chinese population based on large scale consecutive surveillance by multiple pathogen detection
- First identification of several new emerging respiratory viruses in China which were reported by other countries recently



□ Service

- Emerging responses: A/H1N1 2009; Hand-foot-mouth disease, 2008, and 2010; NMD-1, 2010

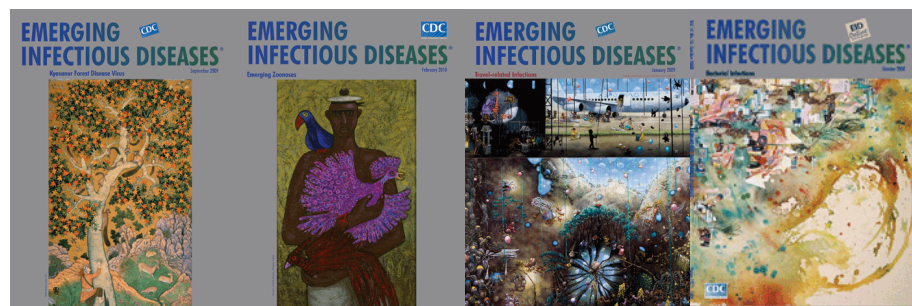


□ Training and collaboration

- Laos, Cambodia, and Mongolia



>20 peer-reviewed international publications



Dept of International Cooperation MOH-Fondation Merieux TB prevention and treatment cooperation project

A cooperation program in 8 counties, 2 provinces and China national TB reference lab to enhance lab diagnosis of TB (will end mid-2011)

- Lab infrastructure
- New diagnostic technology: for more accurate and more timely diagnosis of smear negative, drug-resistant TB, epidemiology
- Human resources: trainings and SOP support



Implementation of New Technology Progress
(until Dec 2010)

	Study1(Patient number)	Study2(Sample number)	Study 3(Patient number)	Study 4(Sample number)
Heilongjiang	249	250	111	87
Zhejiang	243	270	179	88
Sub total	492	520	290	175
Whole Project Target No.	800	500	400	200
Achieved %	61,5%	100,0%	72,5%	87,5%



TRAINING AND KNOWLEDGE SHARING

ON biology
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and the world
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and the world
ICS
COORDINATION



Universities
scientific and technological
vaccinology
conferences
experts



CONFERENCES AND TRAINING IN 2011



- **12-18 conferences organized annually:** conferences, workshops, forums, public health meetings

- **> 1500 participants**







- **Special Events**

- Charles Mérieux Conference
- Les cents gardes
- Christophe Mérieux Conference





Our courses & training programmes

Title	Place
 <p>Post graduate diploma in biology</p>	Cambodia
 <p>Advanced Vaccinology Course ADVAC</p>	France
 <p>Bachelor in Applied Medical Sciences BAMS</p>	Mali – Haiti
 <p>Advanced Course on Diagnostics ACDx</p>	France
<p>French Vaccinology Course</p>	France
  <p>HIV/AIDS Laboratory Training</p>	Mali




Global Link for Online Biomedical Expertise

Three main themes

-  **Biology laboratories sciences and activities**
-  **Epidemiology and disease surveillance**
-  **Prevention and vaccines**

For biomedical laboratories staff, public health professionals, clinicians, epidemiologists and vaccine professionals

Transversal e-tools

- 
- **Globe Network**
exchange area, private working space...
 - **E-learning**
interactive modules, standard operation procedures...
 - **Resources**
conferences, reports, articles online
 - **News and events**
news and local events



FELLOWSHIP PROGRAMME

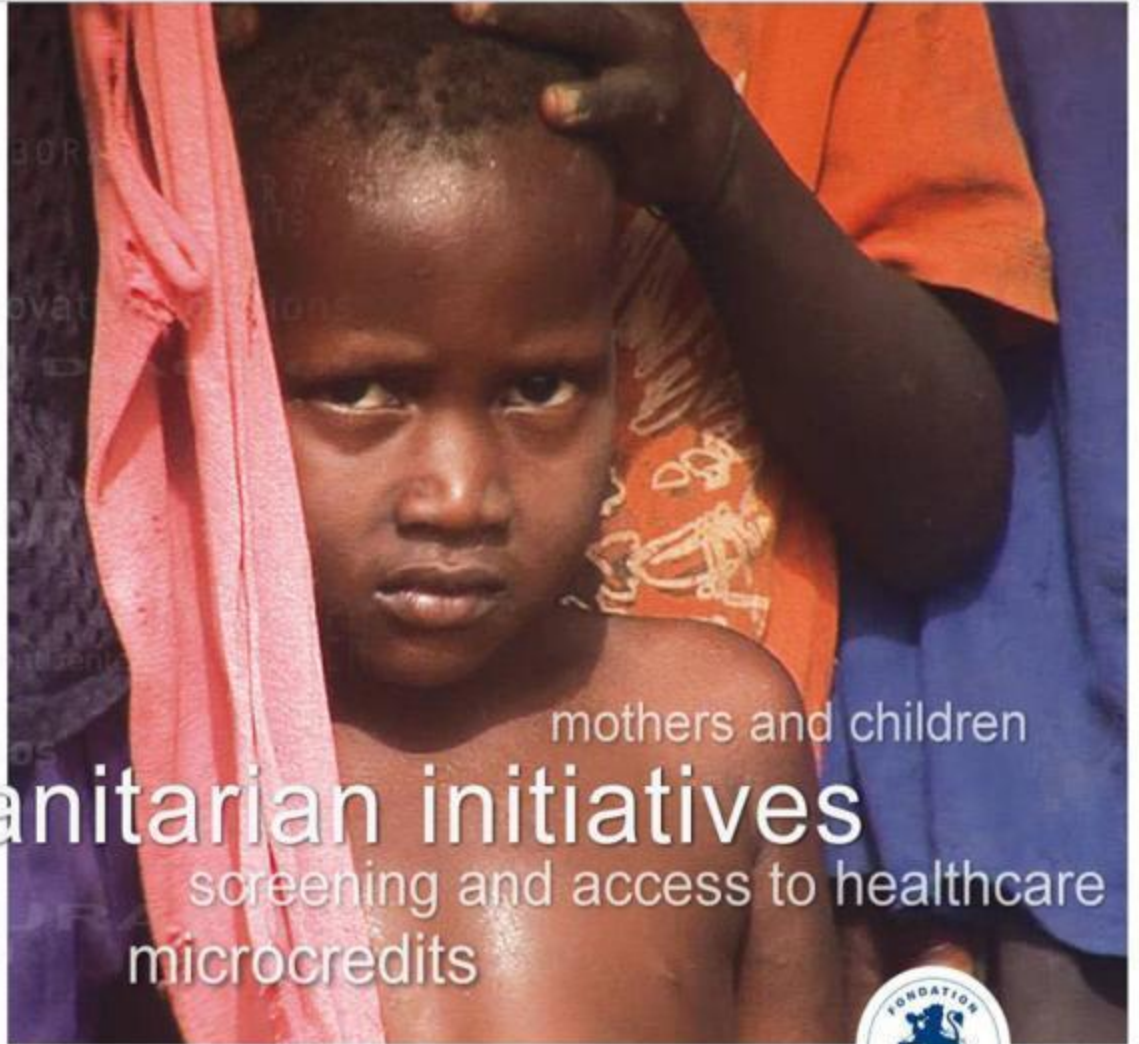
To fight neglected tropical diseases in Africa



- 24 fellowships in 2 years allocated to young african researchers
- Mentorship programme: between scientists from Europe and fellows
- Offer « summer courses » on 'soft' and technical skills and expert meetings
- Setting of an internet portal for information and experience sharing
- Programme in partnership with 4 european foundations
- Open for new partners



MOTHER AND CHILD SUPPORT



mothers and children

humanitarian initiatives

screening and access to healthcare
microcredits



HEALTH MICRO-CREDITS



Supporting women infected or affected with HIV/AIDS

Haiti and Mali

■ Partners: **GHESKIO Centre, ACME, Fondation MARC...**

In Haiti :

- From 2005 to 2010: more than **1800 women entitled to 3038 loans**
- Medium age: 24
- **56%** of women have no education
- **99%** of women have children
- **45%** of women benefited from more than 2 loans
- Medium loan: **250 \$**
- **Approximately 93%** of loans reimbursed

Training for micro-credits beneficiaries:
improvement of the management of a loan or a commercial activity

Setting of a micro-credit

Prevention and treatment of HIV/AIDS



SUPPORTING CHILDREN



Health Solidarity Fund for vulnerable children Mali, Senegal, Madagascar, Haiti, Lebanon

- Primary care given on the street and in care centres
- Medical consultations on the street and care centres and partner centres
- Guiding children in laboratories and full payment of medical analysis
- Distribution of medicine and treatments monitoring
- Full payment of hospitalizations
- Social support of penniless families
- Partners : **Samu Social, Frère Armand, Regional Hospital of Réunion, Antsirabe Hospital Lutheran Hospital of Antsirabe, les Petits Soleils**

IN MALI :

864 healthcare given in 2009

127 hospitalizations et 157 medical support

578 healthcare promotions



ACCESS TO DIAGNOSIS



TUBERCULOSIS

- **China: detection of treatment resistance** in two provinces : Zhe Jiang and Heilong Jiang
- **Madagascar : improvement of the detection of new contagious pulmonary TB cases** in enclosed areas:
 - *Support setting of 40 tuberculosis treatment centres*
 - *Training of 100% of the centres staff*
 - *Support setting of 80 positions of advanced collections*
- **Ethiopia: better detection and monitoring** of populations leaving in rural areas
 - **2280 new cases diagnosed in 2009**
 - *94% of patients are diagnosed during the first 3 months of infection*
 - **A 92% recovery rate** and a 5% mortality rate

HIV

- **Laos: introduction of viral load by the Christophe Mérieux** for the therapeutic monitoring of persons infected with HIV.

*On 30 april 2010, **378 samples (378 patients)** received at the Centre of Infectiology Christophe Mérieux.*

Women represent 43% of whole individuals.



EMERGENCY HAITI



■ **Global Health Project** allowing the 7000 displaced persons of the shantytown 'Cité de l'Eternel' to live in a better conditions:

- Nutrition
- Primary health
- Fight against infectious diseases
- Accommodation
- Education and training



■ **Supporting local partners and social centres:**

- Orphanage 'Médaille Miraculeuse à Cap Haïtien'
- Orphanage 'Don d'amour à Port au Prince'
- Orphanage 'Auberge de la Fraternité' in Tabarre
- Association AKTKK in Verettes for its professional training centre 'L'Espoir'



Partners :

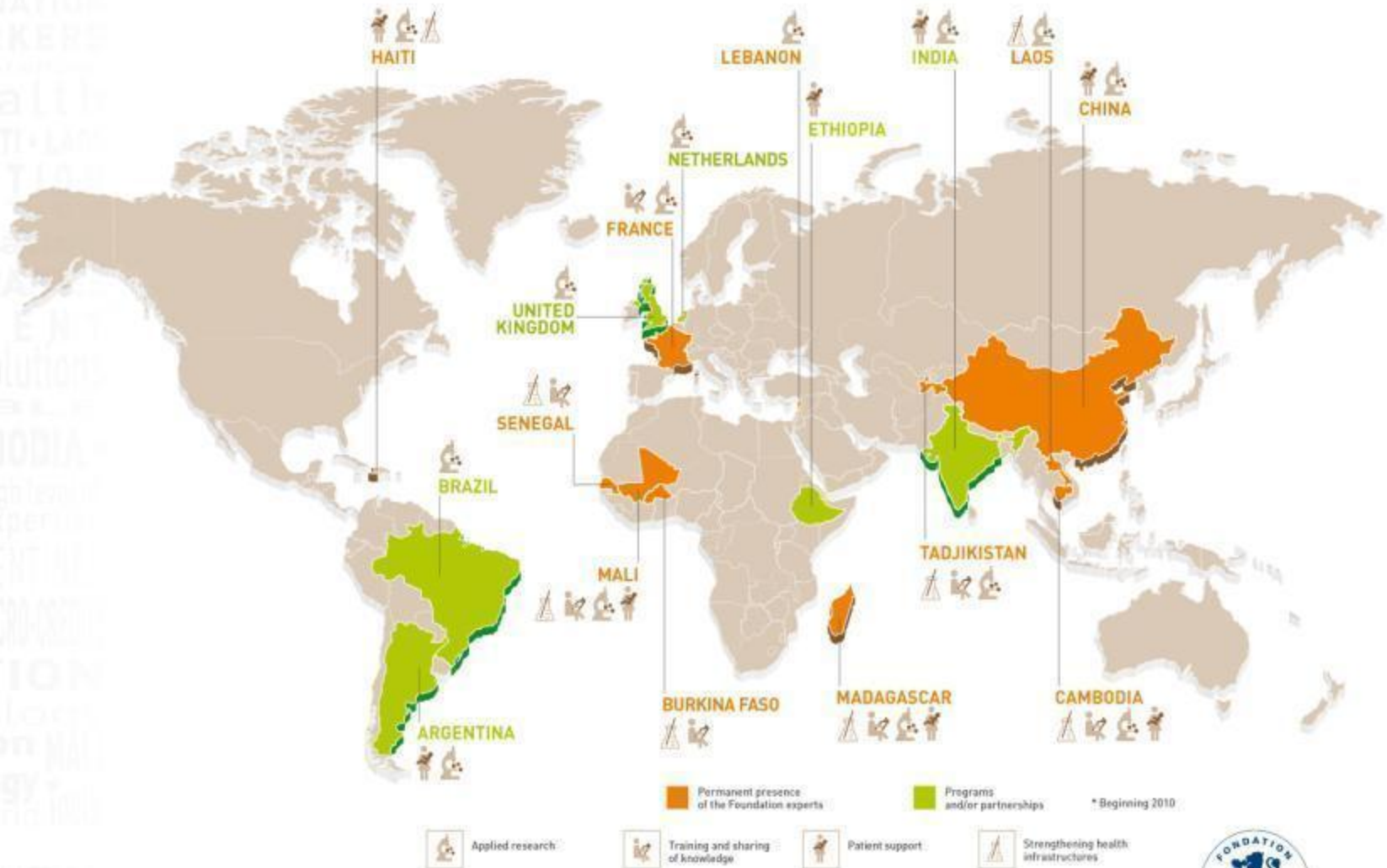
Institut Mérieux

Fondation Christophe et Rodolphe Mérieux

Coopération Monégasque



INTERNATIONAL NETWORK



www.fondation-merieux.org

ENTION biology
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