



**Scientific Collaborative Agreement**  
**Between The Faculty of Associated Medical Sciences (AMS)**  
**Chiang Mai University**  
 110 Intawaroros Road, Sripoom, Chiang Mai 50200  
 and  
**The Program for HIV Prevention and Treatment (PHPT)**  
 29/7-8 Samlan Road, Soi 1, Prasing, Muang, Chiang Mai 50 200

- I. The Faculty of Associated Medical Sciences (AMS) is one of the faculties within Chiang Mai University whose mandate is to develop health professionals to provide education and services in the fields of Medical Technology, Radiology Technology, Occupational Therapy and Physical Therapy. Within the Faculty, the field of Medical Technology is dedicated to training in the clinical laboratory sciences including clinical immunology, blood banking, clinical microbiology, virology, clinical microscopy, hematology, clinical chemistry, cell and molecular biology.

The field of Medical Technology (MT) confers the Bachelor and Master of Science degrees in Medical Technology as well as taking part in the Ph.D. program in Biomedical Science. In Parallel to training health professionals, the MT department conducts researches based on 4 divisions:

**1. Division of Clinical Microbiology:** a) Molecular diagnosis of microbial infections, b) Genetic variation, sequencing and fingerprinting, c) Virology of HIV infection including viral loading and the opportunistic infections (HSV, VZV, CMV, HHV-8, TB, *P. carinii*, *P. marneffei* etc.).

**2. Division of Clinical Immunology:** a) Serodiagnosis of HIV infection, b) Molecular and cellular immunology, c) DNA vaccination, d) HLA typing, e) Monoclonal antibody production.

**3. Division of Clinical Chemistry:** a) Studies on oxidation stress and antioxidant level in various health conditions, b) Development of diagnostic tests in clinical chemistry, c) Production of control materials from bovine serum, d) Studies on medicinal plant effects, e) Studies on molecular biology/chemistry of cancer.

**4. Division of Clinical Microscopy:** a) Molecular diagnosis of hematologic diseases, b) Thalassemia, c) Hematostatic disorders, d) Hematologic testing, e) Body fluid examination, f) Genetic disorder analysis.

AMS has multidisciplinary expertise in laboratory sciences, experience in teaching, and run fully equipped laboratories following high standards of quality assurance and control as well as Good Laboratory Practice (GLP).

- II. The Program for HIV Prevention and Treatment (PHPT, formally known as Perinatal HIV Prevention Trial Group) is a consortium of scientists and medical practitioners



from Institut de Recherche pour le Développement (IRD), Institut National de la Santé et de la Recherche Médicale (INSERM), Tours University, Institut National d'Etudes Démographiques (France), Harvard University (USA), the Ministry of Public Health of Thailand, Chiang Mai and Mahidol Universities, who collaborate on the conduct of research in the fields of clinical epidemiology, physiopathology and public health.

The main areas of research of PHPT are:

1. **Clinical Epidemiology:** The evaluation of the use of antiviral and passive/active immune therapy for the prevention of mother to child transmission of HIV and other viruses, as well as the evaluation of novel approaches for the prevention and treatment of HIV/AIDS.
2. **Physiopathology:** The study of the relationship between HIV, human genetics, antiretroviral treatments and the immune system in order to better understand the mechanisms of mother to child transmission, the reasons for disease progression, and in turn conceive new methods of diagnosis, prevention and treatment.
3. **Public Health:** a) Partnership with the Global Fund to fight against Tuberculosis, AIDS and Malaria (GFTAM) access to antiretroviral program led by the MOPH AIDS bureau  
b) The study of the socio-demographic and economical aspects of the disease and of preventive and therapeutic public health interventions.

During the last agreement period, PHPT has established an international clinical research team able to manage and monitor multicenter clinical trial through its nationwide clinical research network in accordance with 'Good Clinical Practice' (GCP). The expertise of team members includes safety monitoring, data management and statistical analysis. PHPT has secured funding for its main research activities for the next 5 years.

- III. AMS and PHPT agree to strengthen their scientific collaboration in order to strengthen their research, in particular its physiopathology component, and to develop technology transfer and training in the field of clinical research and epidemiology, specifically in the following ways:

#### 1. Research Cooperation

- 1.1 AMS will participate in the PHPT research work as full members of the research group, IRD-UR054, entitled "Clinical Epidemiology: Mother-Child Health and HIV", which is a group of scientists and medical practitioners under the aegis of Institut de Recherche pour le Développement (IRD).
- 1.2 As a member of the IRD-UR054, each collaborating scientist reviews research questions related to the group's focus of research, designs research protocols, seek funding, carries out research and publish the results. Scientists in the group benefit from the group's research environment in term of additional expertise, equipment and collaboration as well as the group's established track record in successful research.
- 1.3 AMS offers rooms to be arranged as an office and a laboratory for the PHPT members. AMS and PHPT laboratory equipment are offered for use in all collaborative research projects.




## 2. Educational Cooperation

- 2.1 As members of AMS, PHPT will develop a syllabus, share professional expertise, participate in teaching both seminars and formal academic courses, mentor AMS students who participate in research projects and develop additional projects of mutual interest, including technology transfers.
- 2.2 As members of AMS, PHPT will provide students and AMS staff with hands-on training regarding their expertise and special training courses which will be opened for health personals both inside and outside the Faculty/University.
- 2.3 AMS and PHPT will cooperate in seeking funding to strengthen the AMS Post-graduate program by supporting staff and graduate students in research and training.

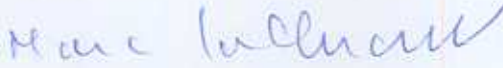
## 3. Period of Agreement

- 3.1 This Scientific Collaborative Agreement constitutes the scientific component of the General inter-institutional Agreement for the creation of an International Research Unit involving the Faculty of Associated Medical Sciences Chiang Mai University, Harvard School of Public Health, and the Institut de Recherche pour le Développement (IRD) as well as the Department of Technical and Economic Cooperation (DTEC, Ministry of Foreign Affairs, Thailand) 5 years agreement between IRD and AMS to be renewed in 2006. The agreement is effective for 5 years starting on the date of its signature by the Dean of the Faculty of Associated Medical Sciences and Director of the PHPT.
- 3.2 This agreement is extendable by mutual agreement between both parties. Unless either party proposes the termination, the automatic extension will be established.
- 3.3 This Agreement can be terminated upon a written request from either party.

Date.....Dec 21, 2004.....

  
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 Associate Prof. Decha Romcai

Dean, The Faculty of Associated Medical Sciences (AMS),  
 Chiang Mai University

  
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Dr. Marc Lallemand M.D  
 Director, The Program for HIV Prevention and Treatment Group  
 (PHPT)