General Information Booklet of the
Third-Country Training Program

The 16th
International Course for Clinical Immunology for Infectious Diseases
for Nile Basin Countries

(ICCI)

September 5th to October 16th 2011

Organized by
Fayoum University
Fayoum – Egypt

In Collaboration with
Japan International Cooperation Agency (JICA)

Egyptian Fund for Technical Cooperation with Africa (EFTCA)
Egyptian Ministry of Foreign Affairs

Federation of African Immunological Societies (FAIS)
International Union of Immunological Societies (IUlS)

September 2011

www.fayoum.edu.eg/ICCI
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International Course for Clinical Immunology for Infectious Diseases for Nile Basin Countries

Preface:
The Faculty of Medicine, Fayoum University, the Japan International Cooperation Agency (JICA), and the Egyptian Fund for Technical Cooperation with Africa (EFTCA), agreed in June 2009, to work together to establish a training course directed for clinical immunology of infectious diseases. The course will be held at FOM/FU, Fayoum, under JICA's Third-Country Training Program (TCTP).

Participants of this course will primarily include the African researchers who are involved in training or supervision of staff working in the field of laboratory medicine & immuno-diagnosis. The course is designed mainly for bench worker physicians and bioscientists to upgrade their practice and research capabilities, including research design. More than 35% of the course agenda are practical laboratory work. This course will be held annually.

The objectives of the course are to provide African participants working in the field of laboratory diagnosis of infectious diseases, whose special interest is the clinical Immunology, with the recent information in their field of work, to interchange their own experiences together, and to be able to contribute to the development of clinical immunology research in the participating countries of Africa.

The course will be held at Fayoum University (FU), Fayoum City, under JICA's Third-Country Training Program (TCTP).

I. COURSE OUTLINE

I.1. Course Title: International Course for Clinical Immunology for Infectious Diseases (ICCI) for Nile Basin Countries.


I.3. Duration of the Course:

- Five (5) weeks every year from 2009 to 2011.
- The 16th program will be organized from September 5th to October 16th 2011.

I.4. Invited Countries:

The Governments of the following countries will be invited to apply by nominating their applicants for the course: Burundi, Comoros, Democratic Republic of the Congo, Djibouti, Ethiopia, Eritrea, Kenya, Malawi, Mauritius, Rwanda, Seychelles, Sudan, Swaziland, Tanzania, Uganda, Zambia and Zimbabwe.

I.5. Number of Participants:

The total number of participants will be twenty (20), seventeen (17) from African countries, and three (3) from Egypt.

I.6. Training Needs:
The role of infectious diseases in threatening the human life has been re-expanded. The emergence of new infectious diseases, AIDS, ALT, Hepatitis C virus, Ebola virus, SARS, Avian Influenza and H1N1 Influenza; received a special world wide attention, because of their current and potential hazards to the health of the world population.

The role of laboratory diagnosis and monitoring of such diseases is of utmost importance for prevention. Most of the African countries are in a situation where infectious diseases represent the major health menace. The challenges posed by this problem entail fund raising for appropriate diagnosis and control of such infections and to have the technical expertise to carry out this job.

Egypt, as one of the African countries, has good potentials to be a center for manpower development in the field of health upgrading programs. These potentials include its central geographical position in the old world, good framed heath system, with one of the oldest Schools of medicine in the African continent. However, the most important issue is that Egypt shares with the other African countries their common health problems, especially the infectious diseases. In Egypt, one can say that there is a sound basic medical research activity.

I.7. Objective Setting of the Course:

Overall Goal

The course is designed to provide opportunities for participants to enhance their current technical skills in laboratory medicine and research capabilities in the field of infectious diseases. The course will help maximizing the contribution of participants to their countries health development, especially in the field of protection against infectious diseases, through the laboratory diagnosis.

Expected Outputs

(Expected learning outcomes of the course curricula)

At the end of the course, the participants are expected to have acquired:

- Basic information of fundamental immunology.
- Recent information on natural history and pathophysiology of infectious diseases.
- Hands-on experience in running and development of medical laboratory for diagnosis of infectious diseases.
- Basic Knowledge and usage of standard immunological techniques in evaluating diagnostic tests and decision analysis.
- Basic concepts for both quality management philosophy for organizational development and a management process for improving the quality of all aspects of laboratory work, especially in the direction of communicable diseases.
- To acquire concepts and basis for the application of total quality management applied to laboratory medicine (immunology lab).
- To be introduced to the 5S and to evaluate its relevance in the continuous improvement of quality of laboratory work and outcome.

I.8. Methodology used in conducting the Course:

The course will be conducted in the form of Lectures (L), Practices (P), Field-trips (F), Group Studies (G), Work Shops (W) & small group discussions.

I.9. Tentative Curriculum of the 16th Program:
The curriculum scheme will include:

I. LECTURES (L):

1) Fundamental Immunology
   - Immunology: An overview
   - Adaptive & Innate Immunology
   - Complement
   - Cells involved in the immune response
   - Cell mediated immunity
   - Humoral immunity
   - Antigen recognition
   - Cell interaction in the immune system
   - Regulation of the immune system
   - MHC and Genetic control of immune system

2) Immunity to Viruses & Bacteria.

3) TB.

4) Malaria.

5) Leishemania.

6) Principles and interpretation of some important Immunological Techniques.

7) Hepatitis B and C viruses.

8) AIDS and ALT.

9) Introduction to Molecular Biology.

10) Introduction to Medical Statistics.

11) Quality control and quality assurance

   - Basic Concepts;
   - Framework of total quality management in a health care lab;
   - Quality Laboratory processes (QLPA);
   - Quality Control (QC);
   - Quality Assessment;
   - Quality Planning (QP);
   - Elements of quality assurance program;
   - Pre-analytic variables: control & monitoring;
   - Control of Analytic Variables;
   - Control of Analytic Quality;
   - External Quality program in Medical Laboratory;
   - Economic of making diagnosis;
   - The 5S principles for TQM in health.

II. PRACTICES (P):

1. Immunological Techniques.
   - Neutrophil phagocytosis.
   - Complement assay by RID.
- Immunofluorescence detection of auto-antibodies.
- Rapid testing for HIV & HBsAg.
- Immunoblot confirmatory diagnosis of HCV.
- Automated Fluorescent DNA sequencing.
- Immunofixation.
- ELISA Technique: Diagnosis of viral hepatitis.
- PCR of HCV- RNA.
- Flowcytometer CD4+/8+ assay.
- Flowcytometer intracellular cytokine assay.
- Innolia for ANA.
- HLA Typing.
- PC Statistics Package.
- Real Time PCR in immunogenetic of infectious diseases.
- Processing of samples on Bactec TB.
- Neuroimmunology of Infectious Diseases.

III. FIELD-TRIPS (F):

1- Primary Health Care Centers in Fayoum.

2- National Central lab (Cairo).

IV. GROUP STUDY (G):

Problem solving & working in small groups and brain storming sessions will be the style of working to elaborate ideas and to train the participants to work in groups.

V. PRESENTATION BY THE PARTICIPANTS (R):

Each participant from the invited countries will present a comprehensive report on the activities he/ she is currently taking at home emphasizing the means through which the course may help in improving conditions of his/ her activities.

VI. THREE WORKSHOPS (W):

- Total Quality Management
- Research Methodology
- Leadership

These intensive workshops will help participants grasping essentials for development of a research protocol. The following topics will be emphasized in the workshop: Research design; Sources of bias in medical research; Measurements & types of error; Inter-observer & Intra-observer disagreement; Data management; How to use a simple computer package for statistical analysis of data.

- The above curriculum may be subjected to some changes.

I.10. Main Training Institution:

Faculty of Medicine/ Fayoum University, (FOM/ FU), Fayoum-EGYPT.

Fayoum University was established in 1983 as a branch of Cairo University. In 2005 the university was separated as an independent university according to the decree number (48). Fayoum University includes 13 faculties: Faculties of Education, Agriculture, Engineering, Archaeology, Medicine, Arts, Informatics & computer Sciences and Faculty of Kindergarten. The university embraces around 25 thousand students and about two thousand of teaching staff members. The main core of the course will take place at the FOM/FU at the University Teaching Hospital, Fayoum - Egypt. The University Hospital was established in 2008. The Hospital has 350 beds and provides comprehensive services in out-patient and in-patient departments.
I.11. Supporting and Collaborating Institutions and Agencies:

- Kumamoto National Hospital, 1-5 Ninomaru, Kumamoto City 860, JAPAN.
- Kumamoto University Medical School 2-1 Honjoh, Kumamoto City 860, JAPAN.

I.12. Completion Certificate:

Participants who have successfully completed the course will be awarded a certificate of attendance the course.

II. CONDITION OF APPLICATION

II.1. QUALIFICATION OF APPLICANTS:

The applicants are ideally expected to be:

- Nominated by their respective Governments in accordance with the procedure stipulated in (2) below.
- Presently engaged in clinical immunology and/or laboratory diagnosis of infectious diseases. Participants engaged in Japanese Technical Cooperation Projects are encouraged to apply for the course.
- In a mid-career leader position, with experience on one or more of the relevant subjects of the course.
- To be from twenty five (25) years to forty five (45) years of age, with at least three-year practical experience or more.
- To have a good command of spoken and written English.
- To be a citizen of the nominating country.
- To be in good health, both physically and mentally, in order to complete the course.

II.2. PROCEDURES OF APPLICATION:

1- The Government invited to nominate applicants for the Course shall forward five (5) copies of the prescribed application form for each nominee to the Government of Arab Republic of Egypt through diplomatic channels (Egyptian Embassy or Consulate) not later than thirty (60) days before the commencement of the course.

2- The Government of the Arab Republic of Egypt will inform the nominating Government through diplomatic channels whether or not the applicant(s) is/are accepted to the Course not later than thirty (30) days before the commencement of the Course.

III. ALLOWANCES & EXPENSES

The following allowances and expenses will be covered:

a. Return air-ticket (economy-class fare) between the international airport of the accepted participant and Cairo International airport. Two way free transportation from Cairo airport to Fayoum.
   b. Living Allowance (per-diem): 100 LE/day.
   c. Shipping Allowance: 450 LE.
   d. Life Insurance will be provided from arrival to departure in Egypt (the traveling time outside Egypt shall not be covered).
   e. Free medical care provided in Egypt for participants who may become ill after arrival to Egypt (costs related to pre-existing illness, pregnancy, or dental are not included).
IV. ACCOMMODATION

Free Accommodation will be valid during the course, including the recreational activities, in other cities than Fayoum, e.g. Cairo & Ismailia.

The accommodation during the course duration will be:

At Fayoum City:

   Fayoum Tourism Hotel

   Address: Fayoum University. Main campus

V. REGULATIONS

Participants are required to:

1- Observe strictly the course schedule.
2- Not to extend the training period.
3- Not to leave Egypt during the course (not to return to their country or go to another country except for the case of humanity).
4- Not to bring any member of their family.
5- Return to their home country on completion of the course, according to the trip schedule designated by the course organizers.
6- Carry out such instructions and abide by such conditions as may be stipulated by both the nominating Government and the Egyptian Government in respect of the training.
7- Observe the rules and regulations of the training institutions or establishment in which participants undertake study or training.
8- Refrain from engaging in political activities, or any form of employment for profit or gain.
9- Discontinue the course, should he/she fall seriously ill and considered unable to continue the training or commit an import act,

VI. RECREATIONAL ACTIVITIES

Through the duration of the course arrangements will be made to schedule recreational activities and visits to Pyramids and Sphinx, the Egyptian Museum, old Cairo, and to Port-Said and/or others.

Each participant will be encouraged to submit a report on the monuments and sight-seeing of his country, using data show or videotape etc...

VII. PRE-DEPARTURE INSTRUCTION & GENERAL ORIENTATION

1- Pre-departure instructions for the participants: participants are requested to report in person to the Egyptian diplomatic mission in their own country in order to complete the necessary procedures and obtain pre-departure instructions.

2- Visa: Before leaving their country, participants should obtain a visa for entry to Egypt. Visas will be issued by the Egyptian diplomatic missions in their country.

3- Air-ticket:
   - Participants are requested to arrive in and to leave Egypt on the dates designated for the course.
   - The dates will be finally confirmed by the air-tickets sent to the participants through the travel agency.
   - The diplomatic missions of Egypt in the participants’ country will help with flight confirmation and details.
All flight routes included in the provided air-tickets are Final.

4- **Photographs:** For administrative purposes, participants are requested to bring along with them to Egypt three (3) copies of a recent photograph (passport size).

5- **Airport:** At International Cairo Airport, a course assistant will be present to welcome the participant, and to arrange his/her transportation from Cairo to Fayoum (130 km).

6- **Incidental Expenses:** Participants are advised to carry some cash in US dollars for incidental expenses during their trip to Egypt and upon their arrival.

7- **Climate:** Autumn time is considered the most pleasant weather in Egypt, with a temperature maximum of 28°C to 10°C minimum. Rain is very rare.

8- **Currency:** One Egyptian pound (LE) equals to about 0.18 US$, i.e. one US$ equal to 5.97 LE.

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**VIII. CORRESPONDENCE**

For inquiries and further information, please contact diplomatic mission of Egypt. Further, address correspondence to:

Fayoum University,  
Fayoum, EGYPT.  
Tel: + 20 – 84 - 6336587  
Mobile: +20 – 18 - 5020552  
Fax: + 20 – 84 - 6336528  
E-Mail: sms00 @fayoum.edu.eg
ANNEX I

Egypt map
ANNEX II

Fayoum map
ANNEX III
FORM OF NOMINATION

By the Government of .................................................................

For the 16th INTERNATIONAL COURSE FOR CLINICAL IMMUNOLOGY FOR INFECTIOUS DISEASES (ICCI)
for Nile Basin Countries
September 5th to October 16th 2011

Part I (To be completed by nominee. Please print or type)

1. Name: .................................................................
   (First name)                        (Surname)

2. Sex: (Male/ Female)

3. Title / Degree: .................................................................

4. Date & Place of birth .................................................................

5. Address for correspondence .................................................................

6. E-mail:

7. Fax:

8. Tel:

   N.B. please type a clear phone, fax number, E-mail and participant’s address for a rapid and efficient
   correspondence between the course organizers, the Egyptian Diplomatic Mission and the selected participant for
   attending the course.

9. Marital Status:

10. Nationality:

11. Name & Address of person to be notified in case of emergency:

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........................................................................................................................................
........................................................................................................................................

Tel.:
Fax:
Fayoum University,
Fayoum, **EGYPT**.
Tel: + 20 – 84 - 6336587
Mobile: + 20 – 18 - 5020552
Fax: + 20 – 84 - 6336528
E-Mail: sms00 @fayoum.edu.eg

**12. EDUCATIONAL RECORD:**

<table>
<thead>
<tr>
<th>Institute</th>
<th>Location</th>
<th>Attended From To</th>
<th>Degree</th>
<th>Fields of Study</th>
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13. EMPLOYMENT RECORD:

13.1 Present Post:
   Name of organization:
   Address of Organization:
   Your Current position:
   From:               To:

13.2 Previous Post:
   Name of Organization:
   Address of Organization:
   Your position:
   From:               To:

3.3 Describe briefly the work of your organization and the service it provides.
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   ............................................................................................................................................................................
   ............

13.4 Describe your own job.
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   ............................................................................................................................................................................
   ............................................................................................................................................................................
   ............

13.5 Explain how the proposed training will be of benefit to you in the work you will be doing on your return.
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   ............................................................................................................................................................................
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   ............

14. The EXPERIENCES
   ............................................................................................................................................................................
   ............................................................................................................................................................................
   ............

Part II (To be completed by nominee)
I, ......................................................... of .................................................

(Name of nominee)  (Country)

I certify that the statement made by me in this form is true, complete and correct to the best of my belief, and undertake to follow all the regulations included in the General Information of the Course.

........................................................., 2011

(Signature of nominee- Date)

PART III (To be completed by an authorized official of the nominating Government)
1. OFFICIAL NOMINATION

On behalf of the Government of ..........................................., I certify that:

A. I have examined the educational, professional or other certificates quoted by the nominee in Part I of this form and I am satisfied that they are authentic and relate to the nominee.

B. I have examined the medical certificate produced by the nominee which states that he is medically fit and free from any infectious disease and with regard to his physical and mental history there is no reason to suppose that the nominee is other than fit to undertake the journey to EGYPT and to remain under training in that country.

C. The nominee has knowledge of spoken and written English sufficient to enable him to follow the course of training for which he is being nominated, and that he can converse easily on every day matter.

I nominate him accordingly on behalf of the Government of ...........................................

Signature:..................  
Position:..................  
Date:.....................

Organization:........................................

2. CORRESPONDENCE: *(Please indicates person and address to which any correspondence regarding this from can be addressed.)*

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