



# TRAINING AND DIALOGUE PROGRAMS

## GENERAL INFORMATION

ON

Zoonosis Control

集团研修「人獣共通感染症対策」

**JFY 2010**

<Type: Leaders Training / 類型: 中核人材育成型>

NO. J10-00672 / ID. 1080033

From July 2010 to December 2010

Phases in Japan : From August. 29, 2010 to Sep. 18, 2010

This information pertains to one of the Training and Dialogue Programs of the Japan International Cooperation Agency (JICA), which shall be implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

# ***I. Concept***

## **Background**

As WHO reports that infectious diseases represent more than 20% of cause of death, infectious diseases became major concern of public health. Particularly, emerging and reemerging infectious diseases, such as Ebola hemorrhagic fever, SARS, and influenza are constantly appearing worldwide. All of these diseases are zoonosis whose causative agents infect both humans and animals. The agents are originally harmless in their natural host wild animals and occasionally transmit to other animal species including humans, causing infectious diseases. Changes in the global environment and human behavior contribute to the emergence of new disease by changing transmission dynamics, bringing people into closer and more frequent contact with pathogens. In addition, increasing trade of animals for pets and as food sources, as well as increasing numbers of travelers and international interactions, have also contributed to a rise in opportunities for pathogens to jump from natural host animals to humans. In order to control zoonosis, it is essential that prevention strategies against zoonosis are implemented under leadership of administration with international coordination.

## **For what?**

This program aims to strengthen systems of prevention and control of zoonosis in respective countries through capacity development of researchers.

## **For whom?**

This program is offered to be a virologist, microbiologist and/or disease expert at a national research institute or a correspondent, engaged in the section for diagnosis of zoonosis.

## **How?**

Participants shall have opportunities to learn 1) basic concept and important items for zoonosis control based on scientific evidences, 2) basic techniques for diagnosis of zoonosis. Participants will also propose "Action Plan" describing what participants will do after the training with knowledge and ideas acquired and discussed in Japan.

## II. Description

**1. Title (J-No.): Zoonosis Control (J10-00672)**

**2. Period of program**

<b>Duration of whole program:</b>	July 2010 to December 2010
<b>Preliminary Phase:</b> (in a participant's home country)	July 2010 to August 28, 2010
<b>Core Phase in Japan:</b>	August 29 to September 18, 2010
<b>Finalization Phase:</b> (in a participant's home country)	September 19 to December 17, 2010

**3. Target Regions or Countries**

Indonesia (2), Lao, China, Mongolia, Jordan, India, Zimbabwe, Argentine and Iraq

**4. Eligible / Target Organization**

A national research institute or a correspondent, engaged in the section for diagnosis of zoonosis.

**5. Total Number of Participants**

10 participants

**6. Language to be used in this program:** English

**7. Program Objective:**

Each participant shares and implements his/her Action Plan for improvement of zoonosis control in respective organizations, and reports its progress to JICA.

**8. Overall Goal**

Participant's organization and participants start actions to improve zoonosis control based on Action Plan.

**9. Expected Module Output and Contents:**

This program consists of the following components. Details on each component are given below:

<p><b>(1) Preliminary Phase in a participant's home country</b> (July 2010 to August 28, 2010) <i>Participating organizations make required preparation for the Program in the respective country.</i></p>	
Expected Module Output	Activities
Job Report is formulated	Formulation and submission of job report

**(2) Core Phase in Japan**  
 (August 29, 2010 to September 18, 2010)  
*Participants dispatched by the organizations attend the Program implemented in Japan.*

Expected Module Output	Subjects/Agendas	Methodology
To deepen understanding on basic concept and measurements for Zoonosis control based on the scientific evidences	(1) General Guidance on Zoonosis (2) Bio-Safety (3) Epidemiology (4) Surveillance (5) Immunology (6) Virology (Influenza, Rabies etc) (7) Microbiology (8) General guidance on international coordination on Zoonosis control	Lecture
To acquire basic techniques for diagnosis of zoonosis	(1) Molecular diagnosis (2) Immunological diagnosis (3) How to use bio-safety level 3 facility	Lecture and Exercise
To propose Action plan for improvement Zoonosis control in participant's belonging organization by making the best use of knowledge and know-how acquired from the program in Japan	(1) Job report presentation and discussions (2) Discussion (3) Preparation of Action Plan	Workshop Consultation Presentation

**(3) Finalization Phase in a participant's home country**  
 (September 19, 2010 to December 17, 2010)  
*Participating organizations produce final outputs by making use of results brought back by participants. This phase marks the end of the Program.*

Expected Module Output	Activities
To implement an action plan	Application and implementation of the action plan (interim report) back in the participant's country and submission of its final report by December 17, 2010

## Core Curriculum

			8:50-10:20	10:30-12:00	13:00-14:30	14:40-16:10
1	Aug.29	Sun.	Arrive in Japan			
2	Aug.30	Mon.	Briefing		Overview 1	Overview 2
3	Aug.31	Tue.	Host defence 1	Host defenece 2	Molecular diagnosis 1	
4	Sep.1	Wed.	Vaccinology	Bio Safety	Molecular diagnosis 2	
5	Sep.2	Thu.	Medical Entomology	Surveillance system	Immunological diagnosis 1	
6	Sep.3	Fri.	Epidemiology 1	Epidemiology 2		
7	Sep.4	Sat.				
8	Sep.5	Sun.				
9	Sep.6	Mon.	Influenza 1	Influenza 2	Immunological diagnosis 2	
10	Sep.7	Tue.	Arbovirus Infection	Viral hemorrhagic fever	At a glance of BSL3 facility	
11	Sep.8	Wed.	Prion diseases	Rabies	Characterization of Influenza virus	
12	Sep.9	Thu.	Tuberculosis	Leptospirosis		
13	Sep.10	Fri.	Drug resistance	Food bone diseases	Bioinformatics	
14	Sep.11	Sat.				
15	Sep.12	Sun.				
16	Sep.13	Mon.	The 2nd International Young Researcher Seminar for Zoonosis Control			
17	Sep.14	Tue.				
18	Sep.15	Wed.	Echinococcosis	Leishmaniasis	Making Action Plan	
19	Sep.16	Thu.	Trypanosomiasis	OIE activity	WHO activity	
20	Sep.17	Fri.	Action Plan Presentation			Closing Ceremony
21	Sep.18	Sat.	Leave Japan			

The above curriculum may be subject to minor change, if necessary.

\* Participants are requested to make Job Report Presentation at the 2nd International Young Researcher Seminar for Zoonosis Control, in order to share the respective countries information in the field of zoonosis control. Participants are advised to prepare for Job Report presentation before arriving Japan. It must be written in English, and about fifteen (15) minutes will be allocated to each participant for the presentation (including discussion). Presentation by using Microsoft Power Point is recommended. If possible, it is also recommended to bring a CD-R etc. in which the Job Report is saved, that will facilitate report making.

### ***III. Conditions and Procedures for Application***

#### **1. Expectations for the Participating Organizations:**

- (1) This project is designed primarily for organizations that intend to address specific issues or problems identified in their operations. Applying organizations are expected to use the Program for those specific purposes.
- (2) In this connection, applying organizations are expected to nominate the most qualified candidates to address the said issues or problems, carefully referring to the qualifications described in section -2 below.
- (3) Applying organizations are also expected to be prepared to make use of knowledge acquired by the nominees for the said purpose.

#### **2. Nominee Qualifications:**

Applying Organizations are expected to select nominees who meet the following qualifications.

##### **(1) Essential Qualifications**

- 1) Current Duties: be a virologist, microbiologist and/or disease expert at a national research institute or a correspondent, engaged in the section for diagnosis of zoonosis
- 2) Experience in the relevant field: have more than 3 years' experience in the field of Zoonosis control as a researcher.
- 3) Educational Background: be a graduate of university
- 4) Language: have a competent command of spoken and written English which is equal to TOEFL CBT 250 or more (This workshop includes active participation in discussions, action plan (interim report) development, thus requires high competence of English ability. Please attach an official certificate for English ability such as TOEFL, TOEIC etc, if possible)
- 5) Health: must be in good health, both physically and mentally, to participate in the Program in Japan.

Pregnancy : There is higher risk for pregnant women and people with chronic diseases to cause serious medical consequences when infected with the new Influenza A (H1N1) virus according to the past cases.

Under the pandemic situations of the new Influenza, pregnant applicants shall not be accepted for the time being.

And applicants who suffer from chronic diseases, such as respiratory illness, cardiac disease, metabolic disease (diabetes, etc), renal dysfunction and immune insufficiency (systemic steroid administration, etc), shall not be accepted in principle. However, for those applicants with the chronic diseases, if they and their organizations express strong interest in participating in training programs, JICA shall accept them as an exceptional case after receiving a letter of consent from themselves and their organizations.

Please ask national staffs in JICA office for the details.

6) Must not be serving any form of military service.

**(2) Recommendable Qualifications**

1) Age: be under thirty five (35) years of age

**3. Required Documents for Application**

**(1) Application Form:** The Application Form is available at the respective country's JICA office or the Embassy of Japan.

**(2) Nominee's English Score Sheet:** to be submitted with the application form. If you have any official documentation of English ability (e.g., TOEFL, TOEIC, IELTS), please attach it (or a copy) to the application form.

**4. Procedure for Application and Selection :**

**(1) Submitting the Application Documents:**

Closing date for application to the JICA Center in JAPAN: **June 4, 2010**

**Note: Please confirm the closing date set by the respective country's JICA office or Embassy of Japan of your country to meet the final date in Japan.**

**(2) Selection:**

After receiving the document(s) through due administrative procedures in the respective government, the respective country's JICA office (or Japanese Embassy) shall conduct screenings, and send the documents to the JICA Center in charge in Japan, which organizes this project. Selection shall be made by the JICA Center in consultation with the organizations concerned in Japan based on submitted documents according to qualifications. *The organization with intention to utilize the opportunity of this program will be highly valued in the selection.*

**(3) Notice of Acceptance**

Notification of results shall be made by the respective country's JICA office (or Embassy of Japan) to the respective Government by **not later than June 30, 2010.**

**5. Document(s) to be submitted by accepted participants:**

Job Report -- to be submitted by **July 30, 2010:**

Before coming to Japan, only accepted participants are required to prepare a Job Report (detailed information is provided in the ANNEX "Job Report (A)(B)". The Job Report should be sent to JICA by e-mail ([sictp1-sub@jica.go.jp](mailto:sictp1-sub@jica.go.jp)).

**6. Conditions for Attendance:**

- (1) to observe the schedule of the program,
- (2) not to change the program subjects or extend the period of stay in Japan,
- (3) not to bring any members of their family,
- (4) to return to their home countries at the end of the program in Japan according to the travel schedule designated by JICA,
- (5) to refrain from engaging in political activities, or any form of employment for profit or gain,
- (6) to observe the rules and regulations of their place of accommodation and not to change the accommodation designated by JICA, and
- (7) to participate the whole program including a preparatory phase prior to the program in Japan. Applying organizations, after receiving notice of acceptance for their nominees, are expected to carry out the actions described in section -9 and section -4.

## IV. Administrative Arrangements

### 1. Organizer:

- (1) **Name** : JICA Sapporo  
(2) **Contact**: [jicasic@jica.go.jp](mailto:jicasic@jica.go.jp)  
sictp1-sub@jica.go.jp

### 2. Implementing Partner:

- (1) **Name** : Hokkaido University, Research Center for Zoonosis control  
(2) **URL**: <http://www.hokudai.ac.jp/czc/index-e.html>

### 3. Travel to Japan:

- (1) **Air Ticket**: The cost of a round-trip ticket between an international airport designated by JICA and Japan will be borne by JICA.  
(2) **Travel Insurance**: Term of Insurance: From arrival to departure in Japan. The traveling time outside Japan shall not be covered.

### 4. Accommodation in Japan:

JICA will arrange the following accommodations for the participants in Japan:

JICA Sapporo International Center (SIC) Address: Minami 4-25 Hondori 16-chome, Shiroishi-ku, Sapporo, Hokkaido 003-8668, Japan TEL: 81(*)-11(**)-866-8333 FAX: 81(*)-11(**)-866-8382 (where "81" is the country code for Japan, and "11" is the local area code)
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If there is no vacancy at JICA Center, JICA will arrange alternative accommodations for the participants.

JICA Sapporo has the following equipment for the participants.

<Private Room>

Bed, Prefabricated Bath, Desk, Refrigerator, Hot pot, Bookshelf, Air Conditioning, In-room Safe, TV sets ( CNN、 NHK ( BS ) , DVD/VHS Video Player)

\***ATTENTION**: There are no slippers or towels. Soap, shampoo & conditioner, toothpaste & toothbrush, razor, detergent, sewing kit and CD-R can be purchased at the front desk.

<Audio-Visual equipment for training>

Video recorder, Multimedia Projector (available to use Microsoft Power Point 2007).

### 5. Expenses:

The following expenses will be provided for the participants by JICA:

- (1) Allowances for accommodation, living expenses, outfit, and shipping  
(2) Expenses for study tours (basically in the form of train tickets).  
(3) Free medical care for participants who become ill after arriving in Japan (costs

related to pre-existing illness, pregnancy, or dental treatment are not included)

**(4) Expenses for program implementation, including materials**

For more details, please see p. 9-16 of the brochure for participants titled “KENSU-IN GUIDE BOOK,” which will be given to the selected participants before (or at the time of) the pre-departure orientation.

**6. Pre-departure Orientation:**

A pre-departure orientation will be held at the respective country’s JICA office (or Japanese Embassy), to provide participants with details on travel to Japan, conditions of the workshop, and other matters.

## V. Other Information

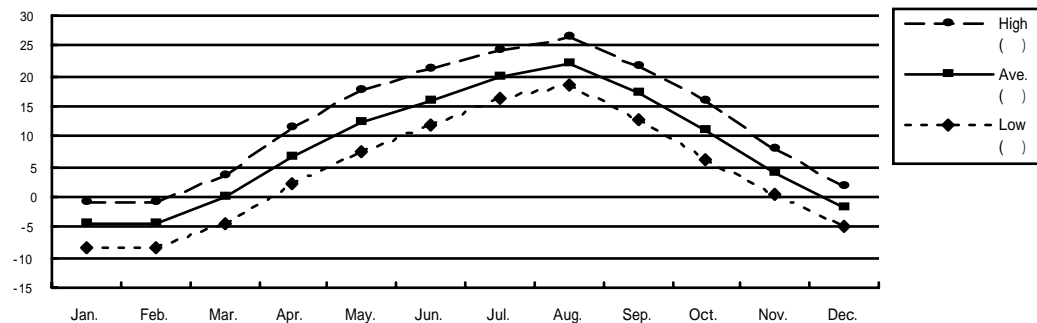
### 1. Action Plan

At the end of the program, participants are requested to make and present an action plan for the respective countries. For their convenience, JICA recommends each participant bring relevant data or reference documents which would be useful in drafting a well-grounded action plan.

### 2. Certificate

Participants who have successfully completed the program will be awarded a certificate by JICA.

### 3. Climate in Sapporo



	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
High ( )	-1	-0.8	3.4	11.4	17.8	21	24.2	26.3	21.7	15.9	7.8	1.7
Ave. ( )	-4.4	-4.4	-0.2	6.5	12.2	16	19.8	22.1	17.1	11	4.1	-1.6
Low ( )	-8.4	-8.5	-4.2	2.1	7.3	11.9	16.4	18.7	12.8	6.3	0.4	-5
Snow(cm)	58	83	64	2							5	28

#### \*Typical Seasonal Wear

(August-September) Short Sleeves, Long sleeves at night

### 4. Recreation

- (1) Participants can use an indoor swimming pool, gymnasium, and tennis courts located next to JICA Sapporo. The charges are paid by JICA.
- (2) JICA encourages international friendship exchanges between participants and local communities. Therefore, it would be helpful for participants to bring national costumes and materials such as slides, videos, and music CD which explain cultures in their countries.

## **VI. ANNEX:**

### **Job Report (A)**

Name:

Country:

Organization and present post:

E-mail:

FAX:

**Remarks 1:** Job Report should be typewritten on A4 sheets as double-spaced, less than 10 sheets.

**Remarks 2:** Each participant is required to make a presentation in 15 minutes based on this Job Report for the purpose of making the training more effective and fruitful by comprehending the situations and problems of the participants each other.

**Remarks 3:** Figures and tables can be attached separately.

1. Organizational structure in the applicant's country, dealing with zoonosis related:
2. The applicant's current job experience in the last 5 years (2006-2010).

Organization	City/ Country	Period		Position/Title	Brief Job Description
		From Month/Year	To Month/Year		

3. Current epidemiological condition, control measures of zoonosis, and results obtained in the applicant's country:
4. Problems being encountered in the applicant's country when the activities mentioned in 3 are being carried out:

5. Expected results and applicant's objective to achieve through this course, in order to overcome the difficulties or constraint mentioned above.

6. Any special remarks:

## **Job Report (B)**

1. Describe what are you in charge at your institute and your experiences in research/countermeasure for zoonosis control.
  
2. Has the applicant's organization established the following methods and/or equipments for the diagnosis/research of zoonosis?
  - (1) Detection of RNA and DNA by polymerase chain reaction (PCR) ( Yes , No )
  - (2) Nucleotide sequencing ( Yes , No )
  - (3) Genetic analysis (e.g., phylogenetic analysis) ( Yes , No )
  - (4) Tissue culture (i.e., CO<sub>2</sub> incubator, etc) ( Yes , No )
  - (5) Fluorescent microscope ( Yes , No )
  - (6) Microplate reader ( Yes , No )
  - (7) Deep freezer (-80°C) ( Yes , No )
  - (8) Liquid nitrogen tank ( Yes , No )
  - (9) Biosafety facility (a room equipped with autoclave and safety cabinet) ( Yes , No )
  - (10) Facility for experimental infection of animals ( Yes , No )
  
3. Describe any projects/plans you are likely to be involved after completion of this training program.

## ***For Your Reference***

### **JICA and Capacity Development**

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that “capacity development” is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, training programs, JOCV programs, etc.

Within this wide range of programs, Training Programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 pre-organized programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs are being customized to address the specific needs of different target organizations, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

### **Japanese Development Experience**

Japan was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the “*adopt and adapt*” concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from this “*adoption and adaptation*” process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan’s developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of “tacit knowledge,” a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a cultural gap.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.



***CORRESPONDENCE***

For enquiries and further information, please contact the JICA office or the Embassy of Japan. Further, address correspondence to:

**JICA Sapporo International Center (JICA SAPPORO)**  
**Address: Minami 4-25 Hondori 16-chome, Shiroishi-ku, Sapporo, Hokkaido**  
**003-8668, Japan**

TEL: +81-11-866-8333 FAX: +81-11-866-8382