LinkTADs

D7.4 Short-term visit programme report

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D7.4
(SHORT-TERM VISIT PROGRAMME REPORT)

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RE	Restricted to a group specified by the consortium (including the Commission Services)	
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Acronyms

CIRAD	Centre de Coopération Internationale en Recherche Agronomique pour le Développement
SHVRI	Shanghai Veterinary Research Institute
JEV	Japanese Encephalitis Virus

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01.

Introduction

1. Introduction

This task aims to bring together interested European and Chinese scholars, researchers and other stakeholders identified in the project and organize 4 short-term academic visits between European and Chinese scientists in order to deepen the knowledge about each other´s organisations, regarding aspects such as research interests, conditions and goals. The short-term visits will serve as bases for establishing further collaboration activities.

Between the 4th and 12th of September 2015, two scientists from CIRAD visited SHVRI to participate in the Kick-Off meeting of the JEV project "Eco-epidemiology and Risk Analysis of Genotype Shift of Japanese Encephalitis Virus in Pigs and Mosquitoes" and laboratory experiments. The JEV project was funded as a mirroring project of the LinkTADs by the China-EU international S&T collaboration program, ministry of S&T, China.

The purposes of the short-term visit were (i) to bring together the partners of the consortium in order to discuss the strategic and operational issues linked to the JEV project implementation; (ii) to participate in the sample collection from pig farms; (iii) to train Chinese young scientists and students in epidemiology; and (iv) to identify potential collaborations.

Information of the participants from CIRAD is as follows:

- Dr Julien Cappelle, Health Ecologist at CIRAD, animal and integrated risk management unit, is based in Cambodia and his research focus mostly on the ecology of wild reservoirs and the risk of emergence of infectious diseases. He is also involved in a research program on JEV in South East Asia.
- Dr Véronique Chevalier, Veterinary Epidemiologist at CIRAD, animal and integrated risk management unit, is specialized in the epidemiology and modelling of vector-borne diseases. She has a strong experience in the study of vector-borne diseases such as Rift Valley Fever or West Nile, which is a due to a flavivirus closely related to JEV. She is also involved in a research program on JEV in South East Asia.

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Specific activities

2. Overview of specific activities

During this one-week visit, specific activities included the presentation of research progress, training lectures on epidemiology, participation to the Kick-off meeting of JEV project, and participation to field experiments.

2.1. Presentations

Scientists and students from CIRAD and SHVRI presented their knowledge and research projects to understand in depth each other´s organisations. The presentations were as follows.

- Examples of CIRAD research collaborations on ecology and epidemiology of infectious zoonotic diseases in South East Asia by Dr Julien Cappelle from CIRAD;
- Vector borne diseases: Concepts and methods by Dr Véronique Chevalier from CIRAD;
- Gene expression profiles of pulmonary macrophages in porcine respiratory disease complex (PRDC) by Dr Yafeng Qiu from SHVRI;
- Identification of Anti-PRRSV ISGs in PAM via RNA-Seq Analysis by Miss Gaini Ma, a master course student from SHVRI;
- Phylogenetic analysis of porcine circovirus type 2 (PCV2) strains from in PCVAD cases in Shanghai by Miss Kun Shi, a master course student from SHVRI.

2.2. Training lectures

Young scientists of SHVRI are not familiar with the knowledge of epidemiology. Therefore, Dr Julien Cappelle and Dr Véronique Chevalier from CIRAD delivered the epidemiology lectures to train the young scientists and students of SHVRI. More than 30 audiences attended the lectures. The training lectures are as follows.

- Introduction to epidemiology, by Dr Julien Cappelle from CIRAD;
- Vector borne disease epidemiology: Examples of studies for better understanding and improved surveillance (and/or control), by Dr Véronique Chevalier from CIRAD.

2.3. Kick-Off meeting of the JEV project

Scientists and students from CIRAD and Dr. Zhiyong Ma's group at SHRVI took part in the Kick-Off meeting of the JEV project. Dr. Zhiyong Ma introduced the overview of the JEV project, showed the experimental flow chart of implementation, and raised the issues linked to implementation. Miss Yaling Wu, a master course student from Dr Zhiyong Ma's group presented the project progress including collection and identification of mosquitoes from pig farms, isolation of JEV from mosquitoes and pig samples. Dr Julien Cappelle and Dr Véronique Chevalier from CIRAD reviewed the implementation plan and the experimental progress, and gave their suggestions and comments in details.

- Introduction of the project of "Eco-epidemiology and risk analysis of genotype shift of JEV in pigs and mosquitoes" by Dr Zhiyong Ma from SHVRI;
- Isolation, identification and sequence analysis of the JEV isolates from mosquitoes in shanghai by Miss Yaling Wu, a master course student from SHVRI.

2.4. Laboratory experiments

Scientists from CIRAD and SHVRI went to a water village and a wetland on Chongming island near Shanghai to understand the environments that support JEV transmission cycle in Shanghai area and evaluate the environments for collection of mosquitoes and the implementation of epidemiological protocols aiming at assessing the circulation

of JEV in these environments. Dr Julien Cappelle and Dr Véronique Chevalier also participated in the collection of mosquitos from a pig farm located in Chongming island.

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Achievements

3. Achievements

Scientists and students from CIRAD and SHVRI exchanged their research progress, discussed the experimental plan of the JEV project, and identified a potential collaboration during the one-week visit. The following achievements were remarkable:

- Further understandingof the research activities, interests and advantages of each other and shrinked the gaps between microbiology and epidemiology by the presentations and training lectures.
- The implementation plan of the JEV project were extensively discussed and re-designed. It will be helpful for the achievement of the JEV project.
- During the short visit, we established a good friendship, agreed to sign up an agreement for collaboration on vector-borne diseases, and intend to establish a joint laboratory for vector-borne diseases.
- Dr Véronique Chevalier from CIRAD intended to enroll a graduate student from Dr Zhiyong Ma's group in CIRAD PhD course. Dr Zhiyong Ma from SHVRI would be the co-advisor.

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Appendix

4.1 Photos of the short-term visit

Presentation by Dr Julien Cappelle from CIRAD

Kick-Off meeting of the JEV project

4.2. Agenda of the short-term visit

Agenda (CIRAD visiting SHVRI)

Sept 4-6
● Arrival
Sept 7
9：00—11：30 (pick up at 8:30 at the hotel)
● Presentation by Dr Julien Cappelle
● Presentation by Dr Véronique Chevalier
13：00—16：30
● Introduction of the JEV project by Dr Zhiyong Ma.
● Discussion of issues on JEV project implementation.
Sept 8
9：00—11：30 (pick up at 8:30 at the hotel)
● Training on epidemiology by Dr Julien Cappelle
● Training on epidemiology by Véronique Chevalier
13：00—16：30
● Lab meeting on research progress.
● Discussion on the strategic and operational issues linked to the JEV project implementation.
Sept 9
9：30—16：30 (pick up at 9:30 at the hotel)
● Go villages for evaluation of mosquito sampling environment (guided by Dr Ke Liu, Mobile: +86-18321339276)
Sept 10—11
9：00—16：30 (pick up at 9:00 at the hotel)
● Collect mosquito samples in Chongming island (guided by Dr Jianchao Wei, Mobile: +86-15921848628)
Sept 12
● Departure

4.3. Participants list

ParticipantList of JEV Meeting

No. 序号	Name 姓名	Gender 性别	Organization 单位	Contact 联系方式	Signature 签名	Note 备注
1	DrZhiyong Ma 马志永		Shanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所	zhiyongma@shvri.ac.cn		
2	DrVeronique Chevalier		（法国国际农业研究合作发展中心，CIRAD）	veronique.chevalier@cirad.fr		
3	DrJulienCappelle		（法国国际农业研究合作发展中心，CIRAD）	julien.cappelle@cirad.fr		
4	Ke Liu 刘珂		Shanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
5	Donghua Shao 邵东华		Shanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
6	Li Beibei 李蓓蓓		Shanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所	lbb@shvri.ac.cn		
7	Jianchao Wei 魏建超		Shanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所	Jianchaowei@shvri.ac.cn		
8	YafengQiu 邱亚峰		Shanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
9	Yuanyuan Shi 石元元		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
10	Zhuanchang Wu 武专昌		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
11	Xin Wang 王鑫		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
12	Pengfei Qi 齐鹏飞		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
13	Gaini Ma 马改妮		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
14	Qianqian Li 黎倩倩		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
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16	Yaling Wu 吴亚玲		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
17	Lunfeng Li 李伦锋		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
18	BeiliHuan 郇贝丽		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所			
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20	Xiao Xiang 相笑		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所		相笑	
21	Kelong Zhang 张克龙		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所		张克龙	
22	Changguang Xiao 肖长广		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所		肖长广	
23	Meilin Lu 陆美林		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所		陆美林	
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27	Fanfan Zhao 赵凡凡		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所		赵凡凡	
28	Xiang Du 杜翔		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所		杜翔	
29	Hao Liu 刘浩		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所		刘浩	
30	Yao Jiannan 姚建楠		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所		姚建楠	

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31	Jiang Chunying 蒋春英		hanghai Veterinary Research Institute (SHVRI) 中国农业科学院上海兽医研究所		蒋春英	
32						
33						

4.4. News report on SHVRI website

http://www.shvri.ac.cn/News/detail.asp?ID=390&At_Cata_ID=24&At_Child=3

院所新闻

最新动态

通知公告

挂靠机构

- 中国畜牧兽医学会兽医公共卫生学分会
- 农业部血防专家咨询委员会

院所新闻 – 最新动态

法国国际农业研究合作发展中心Véronique Chevalier 博士和Julien Cappelle博士来我所进行学术交流

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2015年9月6-12号，应上海兽医研究所猪呼吸综合症团队马志永研究员的邀请，法国国际农业研究合作发展中心Véronique Chevalier博士和Julien Cappelle博士来我所进行为期一周的乙脑国际合作项目学术交流，马志永副所长主持了此次活动。此次学术交流合作的主题围绕蚊媒传播病毒性疾病展开，主要包括以下三个方面：《乙脑病毒优势型别变化的生态流行病学及风险》国际合作项目启动会；蚊媒传播乙型脑炎病毒的流行病学特征研究；蚊媒传播病毒性疾病的流行病学分析方法和生态学研究措施交流。

2015年9月7号上午，Julien Cappelle就法国国际农业研究合作发展中心的概况以及相关的研究进展进行了介绍，Véronique Chevalier对媒介传播性疾病的研究进展进行了详尽的介绍。当日下午，马志永研究员就JEV研究项目进行了阐述。次日上午，Véronique Chevalier教授和Julien Cappelle教授分别做了题为《Application of epidemiology methods on vector-borne diseases》，《Principle of epidemiology》的报告，详尽的阐述了流行病学的概念，研究方法等，为疾病流行病学和生态学研究提供了新的视角。