Partner Search Form

Date	2006	July	Valid until:	2008	December

CONTACT DETAILS

Organisation full name	Lanzhou Veterinary Research Institute, CAAS		Contact person:	
Organisation acronym (Abbreviation)	LVRI,CAAS		Title	Professor, Vice-Head of laboratory
Department / Sector / Faculty	Laboratory of Animal Infectious Diseases of LVRI		First Name	ChangQing
Address	Xujiaping No.1, Yanchangbu, Lanzhou City, Gansu,P.R.China		Family Name	QIU
Postal code	730046		Telephone	0086 931 8342673
City	Lanzhou		Fax	0086 931 8340977
Country	P.R.China		E-mail	cqqiu@126.com
www address	www.chvst.com			

Former participation in EU research projects as Co-ordinator: YES☐ NO ☒

PPOJECT IDEA

Title	Study on detecting techniques for Brucella spp contamination in milk and milk products	**Acronym**	

Project type: Specific Targeted Research Project

CALL REFERENCE

Call identification code: KBBE-2007-2-4-02
Topic addressed: 2.2.4 Detecting contaminants in the food and feed chain

Short description of the project idea:

Animal brucellosis is one of important zoonosises which are able to infect human being. In recent years, the prevalance of brucellosis in damenstic animals and men has been becoming more and more serious in China, for example, at present brucellosis has occurred in 28 provinces since 1980's; We detected 4108 milk samples which were collected from dairy farms of 12 provinces by nested-PCR for brucellosis, the result showed the 203 milk samples were positive for Brucella, which were sampled from 10 of 12 provinces (83.3%). In January to June,2004, the emerging patients with brucellosis were 5753 in China. men were affected with brucellosis owing to eating milk or milk products contaminted with alive Brucella spp and without being degermed soundly. So it is very important that the high-effective diagnostic tools for detecting brucella in food and feed chains in order to protect men's health At present, the domestic animals have been inoculated with vaccine 19,vaccine 2,and vaccine 5,for controlling brucellosis in China. After the vaccination, the specific antibodies will be produced in the animals but in some of domestic animals exposed in Brucella the antibodies will be also produced ,which can not be distinguished by SAT. The key technique for identifing the immunised antibody from the infected antibody will be got while using the biotecheniques the diagnostic value genes are finded from the vaccine strains's genomes. The diagnostic value genes will be inserted in a suitable expression vector and the target protein will be obtained and used for constructing the distinguishable diagnostic ELISA.
The distinguishable ELISA and nested-PCR will be used for detecting brucella-contaminant in milk and milk products, including a whole dairy food chain: breeder bulls, semen, dairy cows, milk and milk products. Therefor, the people's safe, domestic animals's safe and safe of milk products will be effectively protected from brucellosis

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Expertise and reference in this filed

*Expertise

Our research group has a good experience in:

Isolation of microorganisms from original pathologic organs from cattle, sheep with brucellosis.
Purification and characterisation of their properties.
Molecular cloning and sequencing of genes encoding corresponding target proteins.
Construction and identification of the vector expressing the target proteins
Construction of recombinant strains over-expressing the target proteins.
Purification and characterisation of the expressed protein.
Application of the expressed protein for development of diagnostic method for brocellosis.
Construction of PCR for detecting brucella DNA in milk.

* Recent publications in this field

1. QIU Chang-qing, CAO Xiao-an, YANG Chun-hua, ZHOU Ji-zhang, GAO Shuang-di and CHENG Shu-min.(2005). Study on rapid detection technique of DNA in Brucella abortus from dairy cows with brucellosis. Chinese Journal of Veterinary Science and Technology 35(2):85-89.
2. CAO Xiao-an, QIU Chang-qing, ZHOU Ji-zhang, YANG Chun-hua, GAO Shuang-di and CHENG Shu-min.(2005). Laboratory evaluation on PCR diagnostic kit for detecting brucellosis in dairy cow. Chinese Journal of Veterinary Science and Technology 35(9):712-717.
3. YANG Chun-hua and QIU Chang-qing.(2006). Progress on the outer membrane protein and virulence factors of Brucella. Progress in Veterinary Medicine.27(10):23-27.
4. QIU Chang-qing, ZHOU Ji-zhang and CAO Xiao-an.(2006). Diagnosis of collective abortion in dairy cows. China Dairy Cattle.4:43-45.
5. QIU Chang-qing, ZHOU Ji-zhang , CAO Xiao-an and CHENG Shu-min.(2006). PCR diagnosis of brucellosis and chlamydiosis- mixed infection in dairy cows. China Animal Health. 6:32-33
6. YANG Chun-hua, QIU Chang-qing and CAO Xiao-an.(2007). Construction and identification of Pichia pastoris expression vector of the OMP25 gene of Brucella abortus. Chinese Journal of Zoonoses (In press).
7. YANG Chun-hua, QIU Chang-qing and CAO Xiao-an.(2007).Cloning and prokaryocytic expression of whole omp25 gene from Brucella abortus. Veterinary Sciences in China. (Accepted)
8. CAO Xiao-an, QIU Chang-qing, ZHOU Ji-zhang and LIN Guo-zhen(2007). High-dissolved expression of bcsp31 gene of Brucella abortus in E.coli. Journal of Jilin Agricultural University. (Accepted)

*Patents

1. QIU Chang-qing and CAO Xiao-an(2006). The method for detecting Brucella and primer used in it .Application No: 20051000798

Keywords describing the project idea	**Sustainable production and management of biological resources from land, forest and aquatic environments:**	
	☐ Biological resources ☐ Biodiversity ☐ Genomics/Proteomics/Metabolomics ☐ Bioinformatics ☐ Agriculture ☐ Forestry ☐ Fisheries ☐ Aquaculture ☐ Horticulture	☐ Novel feeds ☐ Novel plants ☐ Plant Health ☐ Animal Production and Welfare ☒ Animal husbandry ☐ Vaccines and Diagnostics ☐ Organic production methods ☒ Dairy Production ☐ Tracking and tracing
	Fork to Farm: Food, health and well being	

Partner Search Form

	☐ Consumer behaviour ☐ Functional Food ☐ Nutrition Science ☐ Physiology ☐ Food Technology ☐ Food Processing ☐ Packaging ☒ Food safety	☐ Potable/Safe Drinking Water ☐ Animal Feed ☐ Chemical Food Safety ☒ Microbiological Food Safety ☐ New detection methods ☐ Risk Assessment ☒ Food Chain Analysis/Management ☐ Pesticide/BioActive Additives/Substances Control
	Life sciences and biotechnology for sustainable non-food products and processes	
	☐ Biomass production ☐ Bio-products ☐ Bio-refinery ☐ Bio-processes ☐ Fibres (Wool, cotton, novel-bio-fibres)	☐ Wood-production ☒ Pollution ☐ Ecology ☐ Waste Processing

PROFILE OF PARTNER SOUGHT

Type

☒ Research Organisation ☐ University ☐ SME ☐ Other, please specify:

Role to cover in the project

☐ technology development	☒ research	☐ training
☐ dissemination	☒ demonstration	☐ other

Country / Region Tunisia- Mediterranean Partner countries region

Start of collaboration

☒ start-up phase ☐ mid-term ☐ end-phase

Expertise required

I agree with the publication of my data!
Please fill-in in English and return to:

Partner Search Form

Date	2007	April	Valid until:	2008	January

CONTACT DETAILS

Organisation full name	Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences		Contact person:	
Organisation acronym (Abbreviation)	LVRI,CAAS		Title	Professor, Vice-Head of laboratory
Department / Sector / Faculty	Laboratory of Animal Infectious Diseases of LVRI		First Name	ChangQing
Address	Xujiaping No.1, Yanchangbu, Lanzhou City, Gansu,P.R.China		Family Name	QIU
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Former participation in EU research projects as Co-ordinator: YES☐ NO ☒

PPOJECT IDEA

Title	Study on control techniques for brucelosis and tuberculosis in cattle in China	**Acronym**	

Project type: Large Collaboration Project

CALL REFERENCE

Call identification code: KBBE-2007-1-3-09 FP7-KBBE-2007-2A
Topic addressed: Neglected zoonoses in developing countries:integrated approach for the improvement of their control in animals

Short description of the project idea: In present years, the dairy farming and dairy industry are developing rapidly in China,which is playing a important role in improving the people's live. The people much more plays attention of its security of with expanding of the dairy industry scale. At present, bovine brucellosis and tuberculosis are the two infectious diseases which are badly disserving or threatening dairy farmings and people's health in China. In addition, wild animals may become host reserving brucellosis and tuberculosis, so it is difficult for these diseases to be effectively controlled. Therefore we hope to cooperate with experts from other country for basic researchs of brucellosis and tuberculosis and for supplying new methods and techniques to controlling these diseases.

A. Important scientific problems: Through in-depth researchs of genomes of bovine Brucella and mycobacterium, both the new understandings of occurences, spreading of thses diseases and the theoretic basis of immunization,diagnosis and therapy will be obviously heightened.

B. Main research contents

1 bovine brucellosis

1.1 Research of Brucella abortus genome, which include toxic genes.

1.2 Molecular epidemiology of bovine brucellosis in China.

1.3 New techneques and strategy for controlling bovine brucellosis.

2 bovine tuberculosis

2.1 Research of Mycobacterium bovine genome, which include toxic genes.

2.2 Molecular epidemiology of bovine brucellosis in China.

2.3 New techneques and strategy for controlling bovine tuberculosis.Expertise and reference in this filed

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☐ dissemination	☐ demonstration	☐ other

Country / Region EU Partner countries region

Start of collaboration

☒ start-up phase ☐ mid-term ☐ end-phase

Expertise required

the expertise on coordiation or willing to be coordinator

I agree with the publication of my data!
Please fill-in in English and return to: CQ. QIU