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“The role of dialogue and networking:
From a transitional to an industrialized country”

Home-made Diagnostic Kits for Human and Animal Diseases: a Developing Market

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Abstract

Why the need of home-made diagnostic kits for human and animal diseases?

- Development of animal rearing require strict quality control including sensitive and specific methods for pathogens detection.
- Increasing demands of efficient diagnosis in the domain of health care.
- High cost of imported diagnostic kits for human and animals

Objectives

- Set up research and production system for diagnostic kits
- Promote the development of regional molecular diagnostic centers

Methods

Two examples: WSSV (White Spot Syndrome Virus) and HPV (Human Papillomavirus) detection kits

1- Researches are performed: (1) to set up detection methods based on PCR (Polymerase Chain Reaction) and molecular hybridization in laboratory, (2) to determine specificity and sensitivity of the methods, (3) to test methods on clinical and shrimp samples;

Dialogues with consumers (farmers, medical technicians) allow improvement or modification of detection systems, e.g. simplification of detection protocol or replacement of PCR-based methods by more easy-handling ELISA-based ones (Enzyme-Link Immunosorbant Assay);

Interaction with official organizations and private companies for support.

2- Training and technique transfer are realized via workshop, individual or group training

3- Development of researches are mainly based on experience, skills acquirement through networking

Results

- 1- Elaboration of tests kits responding to different demands
- 2- Promoting the consumption of home-made diagnostic kits
- 3- Development of regional diagnostic labs and centers with adequate personnel

Conclusions

The developing market of diagnostic kits needs:

- Development of knowledge and skills based on research and networking
- Development of the market based on training and technique transfer and inversely on dialogue with consumers.

Keywords: Animal diseases, diagnosis, diagnostic kits, human diseases