# Answers to open questions are categorized here according to themes that emerged

#### 3. Most important outcomes from EUPHEM fellowship:

# Networking

- Building up of a strong professional network in the PH microbiology field
- European-wide network of professional contacts including microbiologists and epidemiologists
- Increased European network of public health professionals epi and lab
- Networking with European epidemiologists and microbiologists
- Networks / networking

### Skills and knowledge in PHM and epidemiology

- Acquisition of essential skills for public health laboratory management (e.g.Biorisk and quality management, development/evaluation of diagnostic assays)
- Following interesting courses (e.g. communication and scientific writing, vaccinology module)
- Increased professional knowledge-base and skills in both PHM and epidemiology
- Learning epidemiology basic concepts
- Understanding the principles of epidemiological investigations and the needs of epi partners
- Widening my knowledge in different fields of microbiology (virology, bacteriology, parasitology, mycology)
- Exposure to Public Health Microbiology (both lab based / and population based)
- Exposure to Epidemiology and Public Health
- Food competency working at the epi-lab interface and lab capacity for surveillance
- Management of applied public health microbiology projects
- Population based thinking rather than individual patient oriented when it comes to assay development/validation/analysis

#### Contextual skills and experience

- Country experience working in a European National Public health institute (versus international organizations eg WHO)
- Increased knowledge of the different European public health systems
- International work experience
- Gaining the confidence to work truly cross-disciplinery

#### **ECDC-related comments**

- Connection / awareness of the work of ECDC

- Understanding of the role of ECDC in public health protection in Europe, and established connections to ECDC staff

#### Professional opportunities

- Several professional opportunities and proposals have emerged that otherwise would not have taken place

#### <u>Language</u>

- Improving my English

# 8. Suggestions on how to ensure or improve the competency of fellows graduating from the EUPHEM programme:

#### Modules/courses

- Development and continuous improvement of PH microbiology training modules and case studies
- Good quality modules targeted specifically for EUPHEM fellows
- Grading of presentation / discussion style / background knowledge of fellow during presentation in the project review module
- Propose more modules addressed to microbiologists
- Specific EUPHEM project review session

#### Training objectives

- Do not accumulate too many objectives (EPIET objectives + EUPHEM specific ones) to reach during the fellowship as the fellows might be too dispersed
- Ensure that the definition of PHM is the same among all host institutes!
- Ensuring new and old host sites all have the same understanding of the programme

#### Evaluation of fellows

- -Careful periodical skills assessments to monitor the learning curve of each fellow
- -Clearly define the competencies the fellow wants / needs to gain /improve after 6 month of the fellowship and re-evaluate progress after 18 month and 24 month

#### **Projects**

- -Allowing for flexibility in choosing projects and curriculum based on different individual backgrounds of fellows entering the programme
- Experiencing a variety of different aspects of PHM (outbreak in the field, outbreak logistics in the lab network, assay development/assessment, political aspects of decisions, biosafety, quality) is more important than ticking boxes on a form!
- Flexibility to work in different PH laboratories (and institutes)
- Leave some autonomy to the fellows to find and pursue their own projects in each institute being aware that all host sites have advantages and limitations

#### Lab-epi collaboration

- -Ensure that EUPHEMs have both a microbiology and an epi supervisors assigned to get equal opportunities to access to outbreaks (so far it has been quite a challenge)
- -Integrate host site visits both EPIET and EUPHEM together where both fellows are present

## International assignments

- Create more opportunities for Public health microbiology specific international assignments
- Give people opportunities to collaborate internationally to experience other laboratory systems (not laboratories!) and give international partners (WHO, NGOs) an opportunity to be exposed to EUPHEM.

# Coordination of the programme

- -Find inspiring PHM leaders to take on fellows, since this discipline is unknown but very important it all hangs and falls with people to translate the ideas. Meaning: ECDC don't be too restrictive.
- -Increase number of EUPHEM coordinators to ensure variety of experience/expertise and highest standard of feedback

## Appraisal of the programme

- -Evaluate the work of ECDC -EUPHEM coordinator / supervising personnel (e.g. time for response / relevance of comments /discussion culture) externally to ensure highest level of support and supervision
- -Learning from past experiences, i.e. alumni

#### **Identity of EUPHEM fellow**

-Do not confuse EUPHEM fellows with lab technicians, PhD students (=hands in the lab) or junior epidemiologists. PHM is a separate discipline and should be fostered as such.

# 9. Would you recommend EUPHEM fellowship to someone interested in a career in Public Health Microbiology? Why?

- -Because it is a unique way of learning and experiencing true public health oriented work using scientific methods.
- -Network: the network gained trough close collaboration / connection to EPIET, ECDC and the host side is extremely valuable for future career development; Experience: the unique opportunity to increase and grow experience, knowledge, expertise in a safe, supporting and constructive environment; Exposure: Through the fellowship one has the opportunity to get deep insights into the structure / organization / procedures of another Public Health institute which, for me, was of outstanding value

- -Yes, as to my knowledge there is no other professional training program (academic or fellowship) to provide such a complete and applicable training in public health microbiology in Europe.
- -Yes I did recommend the program several times because I benefited greatly from my EUPHEM experience and I think the program gets better year after year as our advices are taken into account by the supervisors and coordinators of the host sites and ECDC. I really hope it will continue this way.
- -Yes. It provides a unique opportunity for professional networking as well as to be involved in a wide range of different projects in a relatively short period of time.