**Agenda**

**Training of trainers in**

**“Laboratory analyses for the diagnostic of Highly Pathogenic Avian Influenza”**

13-17 March 2017 Tunis, Tunisia

|  |
| --- |
| First day 13 March 2017 |
| Time | **Subject** |
| 9.00-9.30 | **Welcome** |
| 9.30-10.30 | Lecture : Avian influenza : Epidemiology, diagnostic, symptoms and lesions, monitoring, surveillance  |
| 10.30-11.00 | **Coffee break** |
| 11.00-11.30 | Lecture : Laboratory safety measures |
| 11.30-12.00 | Lecture : Waste management |
| 12.00-12.30 | Discussion |
| 12.30-13.30 | **Lunch** |
| 13.30-15.30 | Necropsy and sample collection (blood, swabs, organs) |
| 15.30-16.00 | **Coffee break** |
| 16.00-16-30 | Sample treatments, conservation and transportation |
| 16.30-17.30 | Egg candling and virus inoculation |
| Second day 14 March 2017 |
| 9.00-9.30 | Lecture : Techniques of diagnostic of Avian Influenza |
| 9.30-10.00 | Lecture : ELISA techniques and result interpretation |
| 10.00-10.30 | **Coffee break** |
| 10.30-13.00 | Lab. work: ELISA –Ab Competition  |
| 13.00-14.00 | **Lunch** |
| 14.00-15.30 | Lab. Work: ELISA - Ab Indirect |
| 15.30-16.00 | **Coffee break** |
| 16.00-16.30 | ELISA: Interpretation of the results |
| 16.30-17.30 | Egg candling, sterility test and sample collection (allantoic liquid; chorio-allantoic membrane and embryos) |

|  |
| --- |
| Third day 15 March 2017 |
| Time | **Subject** |
| 9.00-10.30 | Lab. Work: ELISA-Antigen  |
| 10.30-11.00 | **Coffee break** |
| 11.00-12.30 | Lab. Work: Hemagglutination and Gel Immuno-Diffusion test |
| 12.30-13.00 | Interpretation and discussion |
| 13.00-14.00 | **Lunch** |
| 14.00-15.30 | Lab. Work: Inhibition of hemagglutination |
| 15.30-16.00 | **Coffee break** |
| 16.00-17.00 | Interpretation and discussion |
| Fourth day 16 March 2017 |
| 9.00-9.30 | Lecture: Molecular diagnostic: RT-PCR techniques |
| 9.30-10.30 | Lab. Work: ARN extraction/Trizol |
| 10.30-11.00 | **Coffee break** |
| 11.00-12.00 | Lab. Work: ARN extraction/Commercial kit |
| 12.00-13.30 | **Lunch** |
| 13.30-15.00 | Lab. work: Master Mix preparation |
| 15.00-15.30 | **Coffee break** |
| 15.30-17.30 | Lab. Work: Amplification and revelation (RT-PCR) |
| Fifth day 17 March 2017 |
| 9.00-9.30 | GID reading and interpretation |
| 9.30-10.00 | Lecture: Sequencing and interpretation |
| 10.00-10.30 | **Coffee break** |
| 10.30-12.30 | Lab. Work: Real Time RT-PCR and interpretation |
| 12.30-13.30 | Lab. Work: sequencing technique |
| 13.30-14.30 | **Lunch** |
| 14.30-15.30 | Sequencing : interpretation of results and Discussion |
| 15.30-16.00 | **Coffee break** |
| 16.00-17.00 | Wrap up and award ceremony of the course attendance Certificate |
| 17.00-18.00 | End of the training course |