**培训具体流程安排**

|  |  |
| --- | --- |
| **Day one (Oct. 9, 2019)** | |
| 8:00-9:00 AM | Bacteriology lecture |
| 9:00-9:30 AM | Fecal sample processing and incubation 40C for 6h |
| 9:30-10:00 | Break |
| 10:00-11:50 | Bioinformatics lecture |
| 12:00-1:00 | Lunch |
| 1:00-1:30 PM | Bacteriology and PCR Practice lecture |
| 1:30-2:10 PM | Real-time PCR primer/probe preparation |
| 2:10-3:00 PM | Real-time PCR set up for O157 qPCR, and machine run |
| 3:00-3:30 PM | Break |
| 3:30-4:30 PM | Streak fecal broth onto CT-SMAC, and incubate 37C for 18-24h |
| 4:30-5:00 PM | Question and answer |
| **Day two (Oct. 10, 2019)** | |
| 8:00-8:15 AM | Primer preparation instructions |
| 8:15-8:50 AM | Primer preparation for regular PCR reactions |
| 8:50-9:00 AM | PCR preparation instructions |
| 9:00-10:00 AM | PCR preparation for O157 conventional PCR, and PCR run |
| 10:0-10:30 AM | Break |
| 10:30-11:10 AM | Real-time qPCR results view and data analysis |
| 11:10-11:50 AM | Gel preparation or gene expression data analysis |
| 12:00-1:00 PM | Lunch |
| 1:00-1:40 PM | Loading of PCR products and gel run |
| 1:40-2:10 PM | Observation of culture results on CT-SMAC |
| 2:10-2:30 PM | Question and answer |
| 2:30-3:00 PM | Break |
| 3:00-4:00 PM | Bioinformatics lecture |
| 4:00-5:00 PM | Staining and picture taken for cPCR |
| **Day three (Oct. 11, 2019)** | |
| 8:00-10:30 AM | Exercise on bioinofrmatics software |
| 10:30-11:00 AM | Question and answer, and workshop summary |