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THE 5th REGIONAL HANDS-ON TRAINING WORKSHOP ON THE LABORATORY DIAGNOSIS OF MEASLES AND RUBELLA

Public Health Laboratory Centre, Hong Kong (China)
29 October to 3 November 2012

PROGRAMME

Monday, 29 October 2012  Day 1

08:30 – 09:00 Registration
Distribute Pre-assessment Quiz

09:00 – 09:45 Opening session
• Opening Remarks
• Self Introduction of participants & Administrative announcements
• Group Photo

PHLC Hong Kong China/WPRO

09:45 – 10:20 Updates of WPRO measles and rubella laboratory network and objectives of the training
Dr Youngmee Jee, WHO/WPRO

10:20 – 10:50 Importance of molecular epidemiology and timely reporting the genotype information
Dr Paul Rota, US CDC

10:50 – 11:10 Coffee break

11:10 – 11:40 Introduction of molecular technique for measles virus detection and genotyping by RT-PCR and Real-Time RT-PCR
Dr Paul Rota, US CDC

11:40 – 12:15 Introduction of molecular technique for rubella virus detection and genotyping and RT-PCR and Real-Time RT-PCR
Dr Paul Rota, US CDC

12:15-13:15 Lunch Break

Practical: Real time PCR for Measles and Rubella

13:15 – 13:30 Introduction to laboratory facilities and practicals
PHLC
Annex 2

13:30 – 15:00  Practical 1: Extraction from FTA cards and cell lysates for measles and rubella

15:00 – 15:30  Coffee Break

15:30 – 17:30  Practical 2: Setting up real-time PCR for measles (2 x 8 well strip/group as in attached spread sheet)

**Tuesday, 30 October 2012  Day 2**

09:00 – 10:30  Practical 3: Setting up real-time PCR for rubella and introduction to ABI 7500

10:30-11:00  Coffee Break

11:00-12:30  Country reports: Australia, China, Hong Kong, Japan

12:30 – 13:30  Lunch break

13:30 – 15:00  Analysis of measles and rubella real time PCR as Group (in a computer room)

15:00 – 15:30  Coffee break

**Practical: Genotyping PCR for Measles and Rubella**

15:30 – 17:30  Practical 4: Setting up genotyping RT-PCR for measles and rubella (Run overnight)
**Wednesday, 31 October 2012  Day 3**

09:00-12:00  Practical 5: Analyze genotyping RT-PCR by agarose gel electrophoresis

**Lecture:** Introduction to sequencing, quality control for molecular tests  
*Dr. Paul Rota*  
*US CDC*

Practical 6: Clean up PCR products, template gel

Practical 7: Setting up sequencing reactions for measles and rubella (according to the spread sheet attached)

12:30-13:30  *Lunch break*

13:30-15:00  *Country reports: Korea, Malaysia, Mongolia, New Zealand*

15:30-18:00  Practical 8: Clean up sequencing reactions

**Thursday, 1 November 2012  Day 4**

09:00 – 12:00  Practical 9: Prepare samples for loading to sequencer (ABI 3730)

*Repeat real time or genotyping PCR or Repea*  
*either the measles or rubella real time to test additional samples provided by HK or by the participants.*

*Country reports: Singapore, Philippines, Viet Nam NIHE and PI*

12:30-13:30  *Lunch break*

13:30-18:00  Introduction to sequence analysis, Mega  
*Measles sequence alignments (demonstration)  
Rubella sequence alignments (demonstration)*  
*Analyze data from real time or genotyping PCR from the morning  
Practice with chromatogram files supplied by CDC*  
*Dr. Paul Rota*  
*US CDC*
**Friday, 2 November 2012  Day 5**

**Data reporting and sequencing analysis**

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<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>09:00-12:30</td>
<td>Lecture: Data Reporting, MeaNS, RubeNS, GenBank</td>
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<td><em>Dr Paul Rota</em></td>
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<td>Discussions on other issues :quality assurance, shipping</td>
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<td>Continue to practice sequence analysis, analysis of</td>
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<tr>
<td></td>
<td>sequence data from day 4</td>
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<td>12:30-13:30</td>
<td><strong>Lunch break</strong></td>
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<tr>
<td>13:30-17:00</td>
<td>Continue sequence analysis</td>
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<td>Lecture: Instructions for FTA panels (30 minutes)</td>
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<td><em>Dr Paul Rota, US CDC</em></td>
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<td>Post-assessment Quiz</td>
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**Saturday, 3 November 2012  Day 6**

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<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>09:00-10:00</td>
<td>Quiz results</td>
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<td>WHO Training course assessment and feedback</td>
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<td>10:00-11:00</td>
<td>Next steps and distribution of proficiency panels and other reagents</td>
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<tr>
<td>11:00 -12:00</td>
<td>Closing ceremony and presentation of certificates</td>
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