**ALK and ROS1 Testing Technical Training Workshop Agenda**

**29th May 2017**

**Professor Pauwels**

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| Timing | Session | Presenter |
| 09:15 – 09:30 | **Arrival and welcome**   * Welcome and introductions * Aims of the workshop, review agenda * Housekeeping rules | P. Pauwels |
| 09:30 – 11:00 | **ALK and ROS1 gene rearrangements in NSCLC and perspectives on molecular testing in NSCLC**   * Summarize the NSCLC treatment landscape and the shift towards personalized therapy * Describe the ALK and ROS1 pathway and their role as oncogenic drivers in NSCLC, highlighting TKI inhibition as a viable treatment strategy * Discuss who to test and what to test for: e.g. for *EGFR* mutations, *ALK* and *ROS1* rearrangements in all patients – which algorithm to follow? | P. Pauwels |
| 11:00 – 11:15 | **Refreshments** |  |
| 11:15 – 11:45 | **Emerging platforms for ALK and ROS1 testing**   * Describe the use of PCR and next-generation sequencing techniques for translocation testing * Discuss the advantages and disadvantages of these techniques, using case studies where appropriate | K. Zwaenepoel |
| 11:45 – 12:25 | **IHC workshop: Part 1**   * Optimal use of available tissue and option of cytology * Pre-analytical steps * Technical aspects of ALK/ROS1 IHC testing, discuss how to assess IHC positivity and show examples of positive, negative and false-positive samples * Describe how ALK IHC was validated/CE-marked * Explain how the ALK IHC test in NSCLC differs from the ALK IHC test in lymphoma | K. Zwaenepoel |
| 12:25 – 12:55 | **Lunch** |  |
| 12:55 – 13:25 | **Concordance between IHC and FISH**   * Describe results of correlation studies comparing IHC and FISH results * Discuss, using case studies, the significance of discordance between ALK/ROS1 IHC and ALK/ROS1 FISH | K. Zwaenepoel |
| 13:25 – 14:10 | **FISH workshop: Part 1**   * Optimal use of available tissue and option of cytology * Pre-analytical steps * Overview of the available FISH testing methods * Summarize stages in the ALK and ROS1 Break Apart FISH protocol * Presentation and discussion on how to interpret and score FISH slides | K. Zwaenepoel |
| 14:10 – 14:25 | **Refreshments** |  |
| 14:25 – 15:10 | Attendees split into two groups  **GROUP A:**  **IHC workshop: Part 2**   * Practical IHC scoring training around multi-headed microscope   **GROUP B:**  **FISH workshop: Part 2**   * Lab tour * FISH scoring training (practical scoring training at microscope and computer in small groups) | K. Zwaenepoel & S. Lambin |
| 15:10 – 15:55 | **GROUP B:**  **IHC workshop: Part 2**   * Practical IHC scoring training around multi-headed microscope   **GROUP A:**  **FISH workshop: Part 2**   * Lab tour * FISH scoring training (practical scoring training at microscope and computer in small groups) | K. Zwaenepoel& S. Lambin |
| 15:55 – 16:10 | **Summary of training/Q&A/close**   * Q&A * Seek feedback on the sessions | P. Pauwels |