**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 |