**Advances in Molecular Pathology**

Date June 10-11-12 2025

Course organized in collaboration with the CTO program of the Utrecht Graduate School of Life Sciences

Location: Str. 2.106 and Str. 2.112, Stratenum Building (UMC Utrecht)

**Day 1: Tuesday June 10th**

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| 9:00  | Opening, and introduction into molecular techniques*Clinical Scientist in Molecular Pathology: Dr. A. M. L. Jansen*  |
| 10:00  | Coffee/Tea break  |
| 10:15  | Molecular approaches in Melanoma *Pathologist: Dr. W.A.M. Blokx and Clinical Scientist in Molecular Pathology: Dr. A.M.L. Jansen*  |
| 11:15  | Targeted therapy in Lung cancer *Pulmonologist: Dr. Wouter de Jong and Clinical Scientist in Molecular Pathology: Dr. N. Solleveld*  |
| 12:15  | Lunch break  |
| 13:15  | Liquid biopsies; in lung cancer *Specialist in Laboratory Medicine: Dr. D. van den Broek, AVL-NKI, Amsterdam*  |
| 14:15  | Ethical issues: Unsolicited indings and informed consent *Clinical Geneticist: Dr. B. van Nesselrooij*  |
| 15:00  | Coffee/Tea break  |
| 15:15  | Neuro Molecular Tumor Board; case discussions *Pathologist: Dr. P. Wesseling and Clinical Scientist in Molecular Pathology in training: Dr. Bas van den Berg*  |
| 16:15  | End  |

**Day 2: Wednesday June 11th**

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| 9:00  | Whole genome sequencing in diagnostics *Medical oncologist: Dr. H.H. Nienhuis and Clinical Scientist in Molecular Pathology: Dr. N. Solleveld*  |
| 10:30  | Coffee/Tea break  |
| 10:45  | Practical Session; analyzing a whole genome sequencing report *Clinical Scientists in Molecular Pathology: Dr. A. M. L. Jansen + Dr. N Solleveld.*  |
| 12:15  | Lunch break  |
| 13:15  | Molecular Tumor Board – Discuss indings from practical session *Clinical Scientist in MP: Dr. A. M. L. Jansen, Pathologist: Dr. F.W.G. Schutgens and Medical Oncologist Dr. H.H. Nienhuis*  |
| 14:15  | Molecular Pathology of Paediatric tumors *Pathologist: Dr. L.S. Hiemcke-Jiwa and Clinical Scientist in Mol. Pathology: Dr. L.A. Kester*  |
| 15:15  | Coffee/Tea break  |
| 15:30  | Machine Learning and its use in molecular pathology *Clinical Scientist in Molecular Pathology: Dr. L.A. Kester*  |
| 16:30  | End  |

**Day 3: Thursday June 12th, other molecular techniques**

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| 9:00  | Molecular aspects of Gastroenterology in relation to therapy + Lynch Syndrome *Medical oncologist: Dr. R. J. Kwakman and Clinical Scientist in Molecular Pathology: Dr. N. Solleveld*  |
| 10:00  | Coffee/Tea break  |
| 10:15  | Detection of gene fusions in FFPE; FISH and Archer *Clinical Scientist in Molecular Pathology in training: Dr. Bas van den Berg*  |
| 11:15  | RNA sequencing *Clinical Scientist in Molecular Pathology in training: Dr. M. Koudijs*  |
| 12:00  | Lunch break  |
| 13:00  | Molecular approaches in Hematology *Clinical laboratory geneticist: Dr. E. Waanders and pathologist: Dr. R. Leguit*  |
| 14:00  | Organization of Molecular Diagnostics within the Netherlands *Clinical Scientist in Molecular Pathology: Dr. Wendy de Leng* |
| 15:00  | Course closure and evaluation*Clinical Scientist in Molecular Pathology: Dr. A. M. L. Jansen*  |
| 15:15  | End with drinks |