**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 |