

Advances in Molecular Pathology

Date June 27-28-29 2023

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

Day 1: Tuesday June 27th, sequencing in pathology

- 9:30 Opening, and introduction,
Clinical Scientist in Molecular Pathology: Dr. R.W.J. Meijers
- 10:15 Coffee/Tea break
- 10:30 NGS in regular cancer diagnostics
Clinical Scientist in Molecular Pathology: Dr. A.M.L. Jansen
- 11:15 Practical session: How to analyse a NGS file and its consequences
Clinical Scientist in Molecular Pathology: Dr. A.M.L. Jansen and technician: E. vd Biezen
- 12:45 Lunch break
- 13:45 Tumor mutational burden
Clinical Scientist in Molecular Pathology: Dr. R.W.J. Meijers
- 14:30 Whole genome sequencing in diagnostics
Clinical Scientist in Molecular Pathology: Dr. P. Roepman, AVL-NKI, Amsterdam
- 15:15 Coffee/Tea break
- 15:30 Machine Learning and its use in molecular pathology
Clinical Scientist in Molecular Pathology (in trainee): Dr. L.A. Kester, Prinses Máxima Centrum
- 16:15 End

Dag 2: Wednesday June 28th, molecular approaches in different tumor types

- 9:00 Multidisciplinary Expert Board: Evaluation of NGS results and clinical aspects,
Oncologist: Dr. H.H. Nienhuis and Clinical Scientist in Molecular Pathology: Dr. A.M.L. Jansen
- 10:15 Coffee/Tea break
- 10:30 Targeted therapy in Lung cancer
Pulmonologist: drs. M. Stellingwerf and Clinical Scientist in Molecular Pathology: Dr. N. Solleveld
- 11:30 Liquid biopsies; in lung cancer
Clinical Chemist: Dr. D. van den Broek, AVL-NKI, Amsterdam
- 12:15 Lunch break
- 13:15 Molecular approaches in Melanoma
Pathologist: Dr. W.A.M. Blokx and Clinical Scientist in Molecular Pathology: Dr. A.M.L. Jansen
- 14:15 Molecular approaches in Hematology
Clinical laboratory geneticist: Dr. E. Waanders and pathologist: Dr. F.W.G. Schutgens
- 15:15 Coffee/Tea break
- 15:30 Ethical issues: Unsolicited findings and informed consent
Clinical Geneticist: Dr. M.G.E.M. Ausems
- 16:30 End

Dag 3: Thursday June 29th, other molecular techniques

- 9:30 Neuro Molecular Tumor Board; case discussions.
Pathologist: Dr. A. Mühlebner and Clinical Scientist in Molecular Pathology: Dr. R.W.J. Meijers
- 10:30 Coffee/Tea break
- 10:45 Translocation and copy number variation detection by FISH
Clinical Scientist in Molecular Pathology: Dr. R.W.J. Meijers
- 11:30 Detection of gene fusions in FFPE; development and possibilities
Clinical Scientist in Molecular Pathology: Dr. R.W.J. Meijers
- 12:15 Lunch break
- 13:15 RNA sequencing
Clinical Scientist in Molecular Pathology: Dr. B.J. Tops, Prinses Máxima Centrum
- 14:00 Molecular Pathology of Paediatric tumors
Pathologist: Dr. L.S. Hiemcke-Jiwa and Clinical Scientist in Molecular Pathology: B.J. Tops, Prinses Máxima Centrum
- 15:00 Coffee/Tea break
- 15:15 Molecular aspects of Gastroenterology in relation to therapy + lynch
Oncologist: Dr. J Roodhart and Clinical Scientist in Molecular Pathology: Dr. N. Solleveld
- 16:15 Course closure and evaluation
Clinical Scientist in Molecular Pathology: Dr. R.W.J. Meijers
- 16:30 End