



The MU Vienna Department of Pathology
&
The Nottingham Molecular Pathology Node

Molecular Diagnostics Training School

23-25 February 2026

This Training School will be
delivered as a HYBRID Event!

ALL TIMES ARE CET !

DEPARTMENT OF PATHOLOGY



Vienna Healthcare Group
University Hospital Vienna



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Molecular Diagnostics Training School 2026

Sunday, 22 February 2026

Pre-Conference Tutorials (Optional)

ONLINE ONLY

Tutorials for the Molecular Diagnostic Training School (optional)

Registered attendees can watch the tutorials below via the links emailed to them.

The Basic Principles of PCR

Prof. Mohammad [Ilyas](#) - University of Nottingham, UK

Basics of FISH

Prof Ana-Iris [Schiefer](#) - Medical University of Vienna, Austria

Human Genome Variation Society (HGVS) Variant Nomenclature

Prof Leonhard [Müllauer](#) - Medical University of Vienna, Austria

The Basics of Genomics and Transcriptomics

Prof Martin [Bilban](#) - Medical University of Vienna, Austria

Quality Control in NGS

Dr Antonios [Koussounadis](#) - Saphetor SA

Integrative Genome Viewer

Dr Raheleh [Sheibani Tezerji](#) - Medical University of Vienna, Austria

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Molecular Diagnostics Training School 2026

Day 1 – Monday, 23 February 2026
Foundations of Molecular Diagnostics

Morning Session Chair:

08:45	Welcome Day 1 and Course Overview Dr André Oszwald - Medical University of Vienna, Austria
09:00	Introduction to Molecular Diagnostics Prof Mohammad Ilyas - University of Nottingham, UK
09:30	Nucleic Acid Biology for Diagnostics Walter Berger - Medical University of Vienna, Austria
10:00	Tumor Biology for Diagnostics Walter Berger - Medical University of Vienna, Austria
10:45	Coffee break
11:00	PCR and Sequencing Basics Dr Susan Richman – St James University Hospital, Leeds, UK
11:45	Bioinformatics Essentials for Molecular Diagnostics Dr Antonios Koussounadis - Saphetor SA
12:30	Interpretation and Reporting Dr André Oszwald - Medical University of Vienna, Austria
13:15	Lunch break
Afternoon Session Chair:	
14:15	Laboratory Standards DDr Harald Esterbauer – Medical University of Vienna, Austria - TBC
15:00	Ethical, Legal and Social Issues in Molecular Testing N. N. - TBA
15:45	Coffee break
16:00	Wrap-up Day 1 – Group Exercise or Exam Dr André Oszwald - Medical University of Vienna, Austria
16:45	End of Day 1 of MDTs

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Molecular Diagnostics Training School 2026

Day 2 – Tuesday, 24 February 2026

Clinical Applications Across Oncology 1

Morning Session Chair:

08:55	Welcome Day 2 Dr André Oszwald - Medical University of Vienna, Austria
09:00	The Molecular Tumor Board PD Dr Peter Horak - Nationales Centrum für Tumorerkrankungen Heidelberg, Germany
09:45	Molecular Diagnostics in Lung Cancer Dr Luka Brcic - Hospital Graz II and Medical University of Vienna, Austria
10:30	Coffee break
10:45	Molecular Diagnostics in Breast Cancers Prof Zsuzsanna Varga – University of Zurich, Switzerland
11:30	Molecular Diagnostics in Colorectal Cancer Prof Iris Nagtegaal – Radboud University, The Netherlands
12:15	Molecular Diagnostics in Melanoma Prof Ana-Iris Schiefer - Medical University of Vienna, Austria
13:00	Lunch break
Afternoon Session Chair:	
14:00	Molecular Diagnostics in Prostate Cancer Dr André Oszwald - Medical University of Vienna, Austria
14:45	Molecular Diagnostics in Gynaecological Cancers Prof. Sigurd Lax - Medical University of Graz, Austria
15:30	Coffee break
15:45	Wrap-up Day 2 – Group Exercise or Exam Dr André Oszwald - Medical University of Vienna, Austria
16:30	End of Day 2 of MDTs





Molecular Diagnostics Training School 2026

Day 3 – Wednesday, 25 February 2026

Clinical Applications Across Oncology 2 and Future Perspectives

Morning Session Chair:

08:55	Welcome Day 3 Dr André Oszwald - Medical University of Vienna, Austria
09:00	Molecular Diagnostics in Pediatric Solid Tumors Dr Marie Bernkopf – St. Anna Children's Hospital, Vienna, Austria
09:45	Molecular Diagnostics in Hematological Tumors Dr Klaus Schmetterer - Medical University of Vienna, Austria
10:30	Coffee break
10:45	Molecular Diagnostics in Soft Tissues N. N. – TBA
11:30	Molecular Diagnostics in CNS Tumors Dr Adelheid Wöhrer - Medical University of Vienna, Austria
12:15	Pharmacogenomics Prof. Ron HN van Shaik - Erasmus MC University Medical Center Rotterdam, The Netherlands

13:00 Lunch break

Afternoon Session Chair:

13:45	Liquid Biopsy Prof Ellen Heitzer – Medical University of Graz, Austria
14:30	Multi-Omics and Systems Medicine Prof Christoph Bock - CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences / Medical University of Vienna, Austria
15:15	Global Trends and Disruptive Technologies Dr Matthias Farlik-Födinger - Medical University of Vienna, Austria
16:00	Coffee break
16:15	Wrap-up Day 3 Dr André Oszwald - Medical University of Vienna, Austria
16:30	Farewell and Close of MDTs

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Computational Pathology Training School

26 - 28 February 2026

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Computational Pathology Training School 2026

Sunday, 22 February 2026

Pre-Conference Tutorials (Optional)

ONLINE ONLY

Tutorials for the Computational Pathology Training School (optional)

Registered attendees can watch the tutorials below via the links emailed to them.

Basics of Digital Imaging Including Lexicons

Prof Vincenzo [Della Mea](#) - University of Udine, Italy

What is a Whole Slide Image?

Dr Christopher [Kaltenecker](#) - Medical University of Vienna, Austria

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Computational Pathology Training School 2026

Day 1 – Thursday, 26 February 2026

Exploring Terms and Technologies I

Morning Session Chair: *Prof. M. Ilyas*

08:25 Introduction

Prof. Mohammad [Ilyas](#) - University of Nottingham, UK

Whole Slide Image Generation

08:30 Roadmap to Digitize Pathological Workflows

Dr Anna [Bodén](#) - Linköping University, Sweden

09:15 End to End Quality in Digital Pathology

Prof. David [Brettelle](#) - Leeds Teaching Hospitals NHS Trust, UK

10:00 Comfort break

10:30 Implementing Digital Pathology: The Step from Research to Diagnostics

DI Markus [Plass](#) - Medical University of Graz, Austria

11:15 Image Registration

DI Stefan [Brandstätter](#) – Medical University of Vienna, Austria

12:00 Lunch break

Afternoon Session Chair: *Prof.*

12:45 Industrial Presentation

TBC

13:00 Digital Pathology: where are we on the hype cycle?

Prof. Mohammad [Ilyas](#) - University of Nottingham, UK

13:45 Assessing Immunohistochemistry – Scoring Methods and Pitfalls

Dr Abhik [Mukherjee](#) - University of Nottingham, UK

Thinking Like a Computational Pathologist – Methods in Computational Pathology

14:30 From Pixel to Tissue - Introduction to Computational Pathology for Pathologists

Prof. Andrew [Janowczyk](#) - Emory University, Atlanta, USA

15:15 Quantitative Histo-Morphometry – from Pixels to Diagnosis

Dr Alain [Pitiot](#) - Ilixa Ltd, Ludwig Boltzmann Institute, Austria; University of Nottingham, UK

16:00 Comfort break

16:30 Explainable ML Models for Computational Imaging

Prof. Georg [Langs](#) – Medical University of Vienna, Austria

17:15 Information Management and Standardization

Dr Maximilian [Koeller](#) - Medical University of Vienna, Austria

18:00 Multiple Instance Learning with an emphasis of Vision Transformers / Foundation Models in Computational Pathology

Prof. Guillaume [Jaume](#) – University of Lausanne, Switzerland

18:45 Wrap-up Day 1 of CPTS

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Computational Pathology Training School 2026

Day 2 – Friday, 27 February 2026

Exploring Terms and Technologies II

Morning Session Chair: *Prof. M. Ilyas*

What Is Machine Learning in the Context of Computational Pathology?

08:30	General Introduction to Machine Learning for Pathologists Prof. Vincenzo Della Mea - University of Udine, Italy
09:15	Data Augmentation, Stain Normalisation and Artefact Detection Khrystyna Faryna - Radboudumc, The Netherlands
10:00	Comfort break
10:30	Convolutional Neural Networks: Leaving the Field of Histomorphometry Prof. Vincenzo Della Mea - University of Udine, Italy
11:15	Machine Learning Tasks in Computational Pathology (Segmentation, Classification, Regression) Prof. Andrew Janowczyk - Emory University, Atlanta, USA
12:00	Introduction to QuPath Prof. Peter Bankhead - University of Edinburgh, UK

12:45 Lunch break

Afternoon Session Chair: *Prof.*

13:30	Industrial Presentation TBC
13:45	How to Create a Dataset for Computational Pathology and What Points to Consider Dr Christof A. Bertram – University of Veterinary Medicine, Vienna
14:30	High-Throughput Quality Control, Annotation, and Labeling in Digital Pathology Repositories for Biomarker Discovery Prof. Andrew Janowczyk - Emory University, Atlanta, USA

15:15 Comfort break

How to Translate a Pathological Question into Computational Pathology

15:45	Computational Tools for Deployment of AI Algorithms in Pathology Dr Shan Raza – University of Warwick, UK
16:30	Histogenic Molecular Mapping – Multivariate Analysis of IHC Biomarkers Dr Alain Pitiot - Ilixa Ltd, Ludwig Boltzmann Institute, Austria; University of Nottingham, UK
17:15	AI in Heart Transplantation N.N.

18:00 Wrap-up Day 2 of CPTS

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Computational Pathology Training School 2026

Day 3 – Saturday, 28 February 2026

Worked Examples

Session Chair: *Prof. R. Kain*

How to Translate a Pathological Question into Computational Pathology

08:30	Prostate – Computational Pathology in Uro pathology Prof. Jeroen van der Laak - Radboudumc, The Netherlands
09:00	Breast – Computational Pathology in Senology Prof. Zsuzsanna Bago-Horvath - Medical University of Vienna, Austria
09:30	GI Tract – Computational Pathology in Gastroenterology Dr Sophia J. Wagner - Brigham and Women's Hospital, Harvard Medical School, Boston, USA
10:00	Kidney - Computational Pathology in Nephropathology Prof. Peter Boor – RWTH Aachen University, Germany
10:45	MALDI Imaging – Applications in Pathology Dr Kristina Schwammborn - Technical University Munich, Germany
11:30	Comfort break
12:15	Industrial Presentation TBC
12:30	Digital Intelligence for Tissue Pathology Prof. Arvydas Laurinavičius - VUHSK, Vilnius, Lithuania
13:15	AI in the Oncology Setting Prof. Jakob N Kather - Technical University Dresden, Germany
14:00	Future Outlook - The Remarkable Potential of Deep Learning for Histopathology Prof. Jeroen van der Laak - Radboudumc, The Netherlands
14:45	Wrap-up Day 3 and Close of CPTS

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