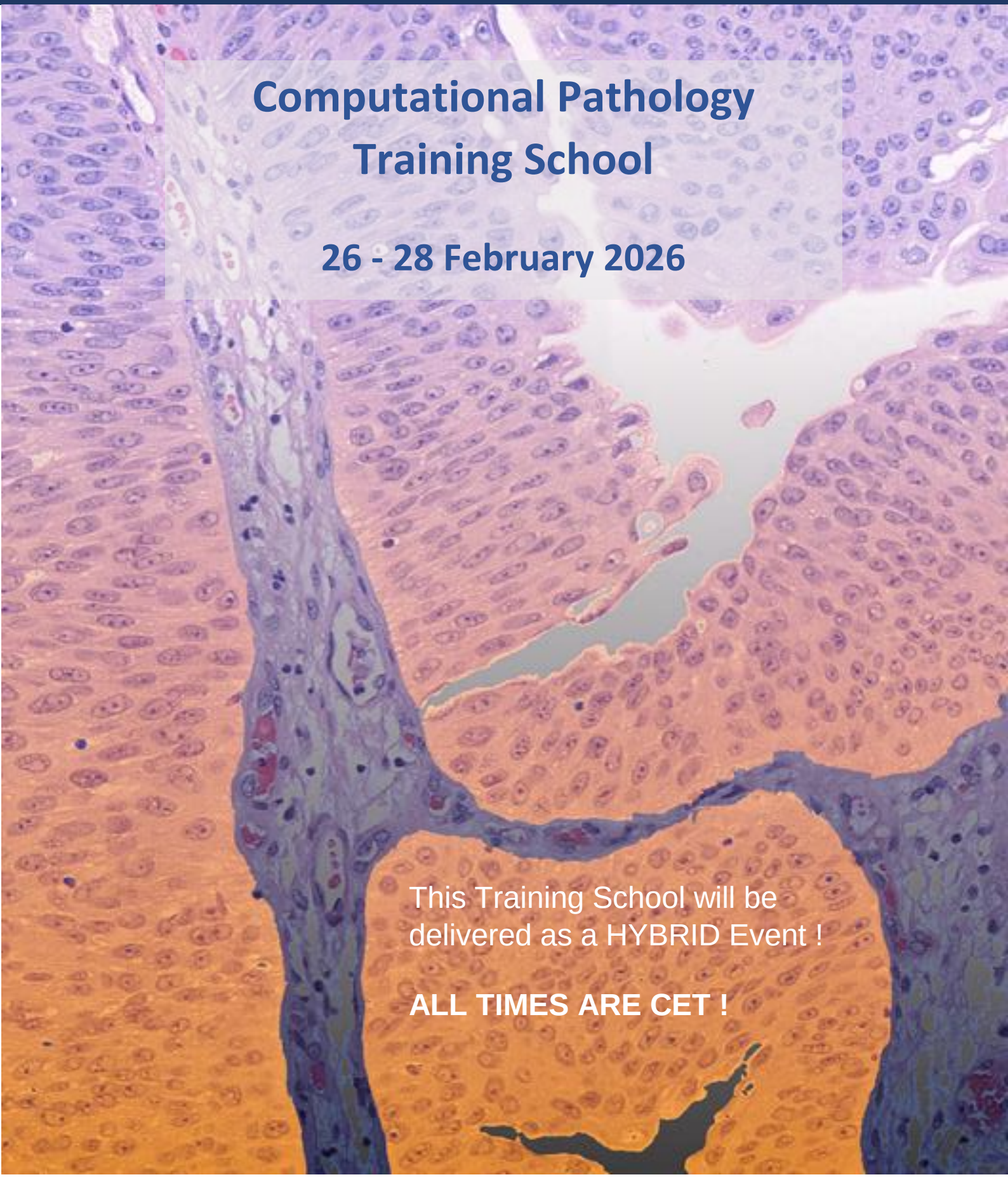
The MU Vienna Department of Pathology
&
The Nottingham Molecular Pathology Node

Computational Pathology Training School

26 - 28 February 2026



This Training School will be delivered as a HYBRID Event !

ALL TIMES ARE CET !

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You can jump to the Speaker Biographies by clicking on Speaker Names in the Programme. To return, click **BACK "←"**in your Quick Access Toolbar (can be added by selecting the symbol from the drop-down menu for **All Commands/Weitere Befehle**)

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Foreword
Computational Pathology Training School 2026

From Prof. Renate Kain

Dear Delegates,

I would like to welcome you all to the seventh **Computational Pathology Training School (formerly Digital Pathology & Image Analysis Training School**, to be held as a hybrid event. The school is supported by the **Austrian Society of Pathology** and the **Nottingham Molecular Pathology Node**.

Established in co-operation with the University of Nottingham, the Computational Pathology Training School (CPTS) has developed into a highly successful joint venture. As last year, we are covering the basics of molecular diagnostics, digital pathology and image analysis in **pre-recorded lectures** that provide the foundation for those of you who have little or no experience in either biological background or technical/methodological approaches. These pre-recorded lectures will be available to you before the beginning of the Training School and are the basis for the specialized lectures on recent developments in technological approaches as well as worked examples.

An apt introduction to our **Computational Pathology Analysis Training School** is the statement:

Computational Pathology: Prepare, the future is here!

The CPTS is aimed at both, Trainee and Consultant Pathologists and non-clinical scientists/computer experts, who may have some experience with digital pathology and platforms, but are looking to deepen their knowledge. Thus the training school aims at bringing together histopathologists and computational scientists to foster mutual understanding and collaboration. As digital technologies are transforming histopathology diagnosis and research, the training school will outline some of the basic challenges encountered during image analysis and introduce the concepts of stereology and segmentation analysis. In view of the rapid need for integration of image analysis with molecular diagnostics development, we shall explore both the spatial reasoning of imaging and assessment of multiple biomarkers on digital platforms.

We have a world class faculty to deliver the teaching materials and to deal with any questions. The school has one industrial Sponsor and they have been invited to give a brief presentation of computational pathology from an industrial perspective.

I hope you enjoy and benefit from the two training schools. We can only hope that the basic language of image analysis is no longer alien and the clinical perspective contextualized after the three-day CPTS, but if you come away agreeing with my introductory statements, then the school will have achieved its aims!

Best wishes,

Renate Kain

Renate Kain
Professor of Pathology
Medical University of Vienna

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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 Brettle - 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. TBA***

12:45	**Industrial Presentation** Astra Zeneca
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 **Fehler! Verweisquelle konnte nicht gefunden werden.** – University of Lausanne,
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 **Fehler! Verweisquelle konnte nicht gefunden werden.** - University of Edinburgh, UK
12:45	**Lunch break**
	Afternoon Session Chair: ***Prof. TBA***
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** Dr. Jana Lipkova– UC Irvine; California, USA
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: ***TBA***

How to Translate a Pathological Question into Computational Pathology	
08:30	**Prostate – Computational Pathology in Uropathology** Prof. Jeroen Professor 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 **Fehler! Verweisquelle konnte nicht gefunden werden.** – RWTH Aachen University, Germany
10:45	**MALDI Imaging – Applications in Pathology** Dr Kristina Schwamborn - Technical University Munich, Germany
11:30	**Comfort break**
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 Professor Jeroen van **der Laak** - Radboudumc, The Netherlands
14:45	**Wrap-up Day 3 and Close of CPTS**

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The Nottingham Molecular Pathology Node

Molecular Diagnostics Training School

23-25 February 2026

This Training School will be delivered as a HYBRID Event!

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Foreword
Molecular Diagnostics Training School 2026

From Prof. Renate Kain

Dear Delegates,

I would like to welcome you all to the eighth **Molecular Diagnostics Training School,** to be held as a hybrid event. The school is supported by the **Austrian Society of Pathology**, the **Nottingham Molecular Pathology Node**.

Established in co-operation with the University of Nottingham, the Molecular Diagnostics Training School has developed into a highly successful joint venture. As last year, we are covering the basics of molecular diagnostics, digital pathology and image analysis in **pre-recorded lectures** that provide the foundation for those of you who have little or no experience in either biological background or technical/methodological approaches. These pre-recorded lectures will be available to you before the beginning of the Training School and are the basis for the specialized lectures on recent developments in technological approaches as well as worked examples.

As for the **Molecular Diagnostics Training School** (MDTS) I would like to begin with the following statement:

Molecular Diagnostics is the foundation for precision medicine.

The MDTS is aimed at persons who may have little experience with molecular diagnostics but also those who are looking for a refresher course or want updates on novel developments. The training school will introduce you to common concepts which underpin the tests, including the panoply of tests which are currently used in diagnostic practice. We will also discuss the importance of getting good template and of having robust quality assurance for your tests. The school will also cover new methodologies such as digital spatial profiling and it will conclude with an overview of current applied molecular diagnostics in a variety of different organ systems.

We have a world class faculty to deliver the teaching materials and to deal with any questions.

I hope you enjoy and benefit from the training school. We will not make you into a card-carrying molecular biologist in these three days, but if you come away agreeing with my introductory statement, then the school will have achieved its aims!

Best wishes,

Renate Kain

Renate Kain
Professor of Pathology
Medical University of 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 **Fehler! Verweisquelle konnte nicht gefunden werden.** - Medical University of Vienna, Austria

The Basics of Genomics and Transcriptomics
Prof Martin **Fehler! Verweisquelle konnte nicht gefunden werden.** - Medical University of Vienna, Austria

Quality Control in NGS
Dr Antonios Koussounadis - Saphetor SA

Integrative Genome Viewer
Dr Raheleh **Fehler! Verweisquelle konnte nicht gefunden werden.** - 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: *TBA*

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: *TBA*

14:15	**Laboratory Standards** N. N. - TBA
15:00	**Ethical, Legal and Social Issues in Molecular Testing** Dr. Michaela Th. Mayrhofer – Medical University of Innsbruck, Austria
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: ***TBA***

08:55	**Welcome Day 2** Dr André Oszwald - Medical University of Vienna, Austria
09:00	**The Molecular Tumor Board** PD Dr Peter **Fehler! Verweisquelle konnte nicht gefunden werden.** - Nationales Centrum für
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 **Fehler! Verweisquelle konnte nicht gefunden werden.** – 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: ***TBA***

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**

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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 **Fehler! Verweisquelle konnte nicht gefunden werden.** – St. Anna Children´s Hospital, Vienna,
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** Dr Karoly **Fehler! Verweisquelle konnte nicht gefunden werden.** – CCB Leiden University Medical Center,
11:30	**Molecular Diagnostics in CNS Tumors** Dr Adelheid Wöhrer - Medical University of Vienna, Austria
12:15	**Pharmacogenomics** Prof. Ron HN **Fehler! Verweisquelle konnte nicht gefunden werden.** - Erasmus MC University Medical
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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