



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

Molecular Diagnostics Training School
08 - 10 February 2021

**Digital Pathology &
Image Analysis
Training School**
11 – 12 February 2021

These Training Schools will be
delivered entirely ONLINE !



Supported by the Austrian Society of Pathology



and the European Microscopy Society





Molecular Diagnostics Training School 2021

Course Overview

Diagnostic Molecular Pathology is the interrogation of tissue-derived molecules (DNA/RNA/protein) to provide clinically useful information adjunctive to routine histopathological examination.

The **MUV Department of Pathology** and the **Nottingham Molecular Pathology Node**, supported by the **Austrian Society of Pathology** and the **European Microscopy Society**, will run the third Molecular Diagnostics Training School (MDTS) in February 2021 which will aim to:

- Teach the theory and utility/limitations of commonly used tests
- Provide a comprehensive overview of the current use of molecular diagnostics

The course is suitable for **Trainee and Consultant Pathologists** with little or no experience of diagnostic molecular pathology and for non-clinical scientists (who may have some experience with molecular testing) wishing to learn more about the clinical application of molecular diagnostics. Teaching will be delivered in the form of formal didactic lectures, interactive tutorials and problem-solving exercises.

This year, for the first time, the course will be delivered entirely ONLINE.

Dates: Monday, 08 February – Wednesday, 10 February 2021

Format: The course will be offered entirely online, with a blend of live lectures, Q&A sessions and interactive elements.

DFP: This programme has been awarded **XX DFP credits** for continuing professional development recognition by the Austrian Medical Chamber.

Registration Options

We have introduced flexible booking options to allow you to attend all, or just part of the event.

Full course registration: EUR 90.00 (Discount: EUR 75.00[^])

Monday 08 February, Tuesday 09 February & Wednesday 10 February 2021.

This allows you access to all 3 days of the course. Not only that, but you'll also receive:

- Access to recordings of all the lectures from the course*
- A free place on our Digital Pathology&Image Analysis Training School (DP&IATS) 2021 also taking place online, on Thursday 11 February & Friday 12 February 2021.

Registration per day: EUR 30.00 per day (Discount: EUR 25.00[^] per day)

This option allows you to attend the days most relevant to you, or which fit in with your availability. You'll also receive

- Access to recorded lectures from the day(s) you attend*

(* You will receive access to these resources for 6 months from **DD/MM/2021**).

([^] Fee discounts for ÖGPath Trainee Members, medical students (undergraduates) and PhD students)

Please follow this link to complete [the ONLINE Registration Form for the MDTS 2021](#)



Programme

Monday, 08 February 2021: Tissue Interrogation

08:25 Introduction**08:30 Interpretation of PCR Data**

Prof. Mohammad Ilyas – University of Nottingham

09:00 Rubbish in=Rubbish out: The Importance of Template

Dr Abhik Mukherjee – University of Nottingham

09:30 The EU Regulation on IVD Medical Devices 2017/746. What Does It Mean for the Pathologist?

Dr. Karl Kashofer – Medical University of Graz

10:15 Comfort break**10:30 The Highs / Lows and Data Interpretation of In-Situ Hybridisation**

Kate Martin – Nottingham University Hospitals NHS Trust

12:00 Lunch break**13:00 Hereditary Tumour Syndrome**

Prof Katharina Wimmer – Medical University of Innsbruck

13.45 Chromogenic In-Situ Hybridisation

Dr Elizabeth Soilleux – Churchill College Cambridge

14:15 Pharmacogenomics

Prof Raute Sunder-Plassmann – Medical University of Vienna

15:00 Comfort break**15.15 NGS – Principles & Platforms**

Prof Gregor Hörmann - MLL Munich Leukemia Laboratory

16.15 NEQAS – Ensuring standards in molecular diagnostics

Dr Jenni Fairley – UK NEQAS

16.45 The Highs / Lows and Data

Prof. Mohammad Ilyas – University of Nottingham

18.15 Wrap-up Day 1

Programme

Tuesday, 09 February 2021: Tissue Interrogation

08:30	Day 1 recap (optional) Prof Mohammad Ilyas - University of Nottingham
08:40	The Highs / Lows and Data Interpretation of Sequencing Dr Susan Richman – St James University Hospital, Leeds / Dr Antonios Kousounadis
10:15	Comfort break
10:30	NGS – Expression Analysis Dr Christine Blancher – University of Oxford
11:00	NGS and Cytogenetics – Worked Examples Prof Martin Bilban, Dr Svitlana Demyanets, Dr Felicitas Oberndorfer – Medical Univ. of Vienna Prof Gregor Hörmann – MLL Munich Leukemia Laboratory
12:00	NGS – Epigenetics and Functional Genomics Prof Christoph Bock – CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences / Medical University of Vienna
12:30	Lunch break
13:30	The Liquid Biopsy Prof Michael Speicher – Medical University of Graz
14:00	NGS: Is it a Mutation or NOT Dr Rachel Butler – North Bristol NHS Trust
15:00	Comfort break
15:15	Molecular Diagnostics in Skin Cancers NN - TBA
16:00	Molecular Diagnostics in Mesotheliom Dr Luka Brcic – Medical University of Graz
16:30	Molecular Diagnostics in Mesenchymal Cancers Dr Nischalan Pillay – UCL Cancer Institute
17:15	Molecular Tumour Board TBC - Prof Gerald Prager – Medical University of Vienna
17:45	Wrap-up Day 2

Programme

Tuesday, 10 February 2021: Applied Molecular Diagnostics

08:30 **Molecular Diagnostics in CNS Cancers**
Dr Zane Jaunmuktane – UCL Queen Square Institute of Neurology

09:15 **Molecular Diagnostics in Lymphoid Cancers**
Prof Ming Du – University of Cambridge

10:00 **TBC - Homologous Repair Deficiency**
Prof Thomas Ströbel – Medical University of Vienna

10:30 **Comfort break**

10:45 **Molecular Diagnostics in Lung Cancers**
Prof Leonhard Müllauer – Medical University of Vienna

11:30 **Molecular Diagnostics in Gynaecological Cancers**
Prof Simon Herrington – University of Edinburgh

12:15 **Lunch break**

13:00 **Molecular Diagnostics in Male Genitourinary Cancers**
Prof Clare Verrill – University of Oxford

13:45 **Molecular Diagnostics and Immuno-Oncology**
Dr Alexander Haragan – Royal Liverpool University Hospital

14:30 **Molecular Diagnostics in Gastrointestinal Cancers**
Prof Gerald Höfler – Medical University of Graz

15:15 **Comfort break**

15:30 **Prognostic and Predictive Molecular Tests for Breast Cancer**
Prof Zsuzsanna Bago-Horvath – Medical University of Vienna

16:15 **Molecular Diagnostics in Breast Cancers**
Prof Emad Rakha – University of Nottingham

17:00 **Functional Genomics**
Prof Philipp Staber – Medical University of Vienna

17:45 **Wrap-up Day 3 and Close**

Get in touch



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Digital Pathology & Image Analysis Training School 2021

Course Overview

Digital pathology aided by robust image analysis techniques has made great inroads in both diagnostics and research in histopathology. The implementation of whole slide scanning and advances in software and computer processing capacity has profoundly impacted not only routine clinical diagnosis but also molecular testing including bio-banking, molecular profiling and companion diagnostic development. **The MUV Department of Pathology**, supported by the **Austrian Society of Pathology**, the **Nottingham Molecular Pathology Node** and the **European Microscopy Society** will run the second training school in Digital Pathology&Image Analysis. The school will take place entirely online this year and aims to:

- Provide a comprehensive overview of the current use of image analysis in pathology diagnosis and research including practical examples
- Address how potential problems in image analysis can be resolved
- How digital pathology can be integrated in the work-stream

The course is suitable for **Trainee and Consultant Pathologists** with little or no experience of image analysis and for non-clinical scientists/computer experts (who may have some experience with digital platforms) wishing to learn more about the techniques and application of image analysis. Teaching will be delivered in the form of live online lectures, with Q&As and interactive elements.

Dates: Thursday, 11 February & Friday 12 February 2021

Format: The course will be offered entirely online

DFP: This programme has been awarded **X DFP credits** for continuing professional development recognition by the Austrian Medical Chamber.

Registration Options

Full course registration: EUR 50.00 (Discount: EUR 40.00[^])

This allows you access to the 2 days of the course*

Registration per day: EUR 25.00 per day (Discount: EUR 20.00[^] per day)

This option allows you to attend the days most relevant to you, or which fit in with your availability. You'll also receive

- Access to recorded lectures from the day(s) you attend*

(* You will receive access to these resources for 6 months from **DD/MM 2021**).

([^] Fee discounts for ÖGPath Trainee Members, medical students (undergraduates) and PhD students)

Please follow this link to complete [the ONLINE Registration Form for the DP&IATS 2021](#)

Molecular Diagnostics Training School (MDTS) Delegates: Free of charge

All delegates who register for the full MDTS are eligible for a free place on the Digital Pathology&Image Analysis Training School. Please see above for further details on the MDTS 2021.



Programme

Thursday, 11 February 2021

Basic Principles of Image Analysis & Research Applications

08:55	Introduction Prof Mohammad Ilyas - University of Nottingham, UK
09:00	Basics of Digital Imaging Including Lexicons Prof Vincenzo Della Mea – University of Udine, Italy
09:45	Qualitative Histo-Morphometry – from Pixels to Diagnosis Dr Alain Pitiot - Ilixa Ltd, Ludwig Boltzmann Institute, University of Nottingham
10:30	Spatial Reasoning for Histological Imaging Prof Gabriel Landini - University of Birmingham, UK
11:15	Comfort break
11:30	Deep Learning and Diagnostic Pathology Prof Vincenzo Della Mea – University of Udine, Italy
12:15	Assessing Immunohistochemistry – Scoring Methods and Pitfalls Dr Abhik Mukherjee – University of Nottingham, UK
13:00	Lunch break
14:00	Digital Intelligence for Tissue Pathology Prof Arvydas Laurinavičius - VUHSK, Vilnius, Lithuania
14.45	Histogenic Molecular Mapping – Multivariate Analysis of IHC Biomarkers Dr Alain Pitiot - Ilixa Ltd, Ludwig Boltzmann Institute, University of Nottingham
15:30	Comfort break
15:45	Strategies and Demands for Digital Pathology Workflow Integration Dr Liron Pantanowitz – University of Michigan at Ann Arbor, MI, USA
16.30	Industrial presentation (15 min) INSPIRATA
16.45	Industrial presentation (30 min) TBA
17:15	Wrap-up Day 1

Programme

Friday, 12 February 2021

Diagnostic Applications

09:00 Image Analysis in Digital Pathology – What are the Main Challenges?

Prof Mohammad Ilyas, University of Nottingham, UK

10:00 TBA

Prof Kurt Zatloukal – Medical University of Graz

10:45 Digital Pathology in Diagnostic Services

Prof Mohammad Ilyas, University of Nottingham, UK

11:15 Comfort break**11:30 Mass Spectrometry Imaging**

Dr Kristina Schwamborn – Institute of Pathology, TU Munich

12:00 TBA – 30 min

TBA

12:30 TBA – 30 min

TBA

13:00 Lunch break**14:00 TBA – 45 min**

TBA

14.45 Introduction to Computational Pathology for Pathologists

Prof Andrew Janowczyk – Case Western Reserve University, Cleveland, USA

15.15 TBA – Industrial presentation

TBA

15:30 Comfort break**15:45 TBA – 30 min**

TBA

16:15 TBA – 30 min

TBA

16:45 Close**Get in touch**gertrude.krainz@meduniwien.ac.at



Testimonials

What delegates said about our previous MDTs / DP&IATS:

«Great and informative, yet intense days!»

«Very good!»

« Fantastic course, very interesting and well-chosen topics»
«Very interesting»

«Super!»

«Excellent!»

«Interesting new probes even for routine and experienced FISHeS»

«Really interesting and relevant for future»

«Great talk!»

«Perfect demonstration of extremely relevant material»

