



ISO 17043:2010 Accredited



7833

# Scheme Updates

Fitim Berisha

UK NEQAS ICC & ISH Staff scientist

EQA manager database



UK NEQAS ICC & ISH Laboratory premises (10 Colbath square)



Pilot and new modules updates:

Low HER2

Head and Neck (HPV & P16)

Sarcoma module

# New EQA manager database

“You spoke we listen”

[PARTICIPANT LOGIN](#) [FAQS](#) [IMAGE UPLOAD AREA](#) [f](#) [t](#) [in](#)

**UK NEQAS** IMMUNOCYTOCHEMISTRY & IN-SITU HYBRIDISATION  
International Quality Expertise

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The UK National External Quality Assessment Scheme for  
**Immunocytochemistry &  
In-Situ Hybridisation (ICC & ISH)**  
DELIVERING EQA WORLDWIDE

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## Welcome to UK NEQAS ICC & ISH

### Over 30 Years of Experience in EQA

We offer assessments in 12 different immunocytochemistry and 3 *in-situ* hybridisation modules.  
UK NEQAS ICC & ISH welcomes participation from both UK and non-UK based laboratories.

139 Gn Gn/Gh

**NON-COMPLETION**  
Reason (if applicable)

**METHOD**  
Choose

**MAIN BUFFER**  
Choose   
pH

**AUTOMATION / MANUAL**  
Instrument

**ENDOGENOUS BLOCK**  
☐ None  
☐ Peroxide   
☐ Serum   
☐ Other   
Approx Temp  °C  
Time  Mins

**CHROMOGEN and SUBSTRATE**  
Chromogen   
Cat No   
Work Conc   
Substrate   
Work Conc   
pH   
Temp  °C  
Time 1  Time 2  mins

**ANTIGEN RETRIEVAL**  
Choose   
Model   
Wattage (MW)  MW  
Pressure (KPa)   
Volume of Buffer  Litres  
Buffer   
Molarity  mM  
pH   
NEQAS heating time from:  
Cold  mins Hot  mins  
In-house heating time from:  
Cold  mins Hot  mins  
Full Press (FC)  
NEQAS  mins In-house  mins  
No of Slides  per incubation

**ENZYME ANTIGEN RETRIEVAL**  
Choose   
Conc  % Prediluted ☐  
Diluent   
CaCl2 Conc  pH   
Digestion Time  
NEQAS  mins InHouse  mins  
Temp  °C

**Primary Antibody**  
Supplier   
Cat No   
Batch No  Expiry Date   
Protein Conc  mg/l  
Prediluted ☒ Dilution 1:   
Time  mins Temp  °C

**HEAT MEDIATED ANTIGEN RETRIEVAL**  
Choose   
Model   
Wattage (MW)  MW  
Pressure (KPa)   
Volume of Buffer  Litres  
Buffer   
Molarity  mM  
pH   
NEQAS heating time from:  
Cold  mins Hot  mins  
In-house heating time from:  
Cold  mins Hot  mins  
Full Press (FC)  
NEQAS  mins In-house  mins  
No of Slides  per incubation

**Detection Kit or 2nd Layer**  
Supplier   
Cat No   
Batch No  Expiry Date   
Protein Conc  mg/l  
Prediluted ☒ Dilution 1:   
Time  mins Temp  °C



Old v New



**UK NEQAS**  
Immunocytochemistry & In-Situ Hybridisation

Lab Number/Login Name	<input type="text"/>
Identity	<input type="text"/>
Password	<input type="password"/>

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 UK NEQAS ICC & ISH

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Method Entry Forms

Run No	Programme	Date Issued	Closing Date	Form Started	Days Remaining 	
141	Cytology	01/03/2023	12/03/2023		 30 days overdue	<a href="#">Form</a>
141	ALK IHC NSCLC	01/03/2023	25/03/2023		 17 days overdue	<a href="#">Form</a>

Programme Summary

Programme 	Median Score				Median Score Percentile				
	All Runs	Last 5 Runs	Difference		All Runs	Last 5 Runs	Difference		
Alimentary Tract Pathology	16	18.5	2.5		57.29	75.61	18.31		<a href="#">Results</a>
ALK IHC NSCLC	17	16	-1		58.89	57.78	-1.11		<a href="#">Results</a>
Breast HER2 ICC	17	17	0		82.38	78.8	-3.57		<a href="#">Results</a>
Breast HER2 ISH	16	16	0		74.55	62.26	-12.28		<a href="#">Results</a>

Select the module and enter the methodology results

 UK NEQAS ICC & ISH

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Sample Entry Details

## UK NEQAS

### Immunocytochemistry & In-Situ Hybridisation

#### Cytology

Run: 141      Participant: 13      Issue: 01/03/2023      Closing: 12/03/2023


Antigen Selection

☒ Calretinin  
☐ Tick here if alternative antigen applied for.

Non-Completion

Reason (if applicable) ▼

Date of Staining

11/04/2023 

Primary Antibody

Supplier

Dako / Agilent ▼

Antibody

Calretinin ▼

Product code

M7245 ▼


Lot number

123456

Non-Specific Primary Antibody Binding

☒ Was an additional block used?  
Blocking Method  
Dako protein block (X0909) ▼

# Methodology details

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Sample Entry Details

Antigen Retrieval

Please select

☐ None ☒ Heat ☐ Enzyme

Supplier

Leica / Novocastra

Buffer Type

ER1

Duration

20 mins

Detection Method

Supplier

Leica / Novocastra

Method

BOND Polymer Define Detection

Product Code

DS9800

Chromogen

☒ DAB (brown) ☐ AP (red)

Automation

Please select

☐ None (manual) ☒ Automated

Supplier

Leica / Novocastra

Platform

Leica Bond III

Self Assessment Scores

Assess staining quality using the UK NEQAS scoring system (range: 4-20)

UK NEQAS supplied sample(s)

Score

20

Comment

In-House sample(s)

Score

20

Comment

# Closed assessment

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Actions

Search...


Programme	Date Issued	Closing Date	Form Start...	Form Sub...	Test Compl...
Run No: 139					
Alimentary Tract Pathology	08/08/2022	09/09/2022		✓	✓
ALK IHC NSCLC	08/08/2022	09/09/2022		✓	✓
Breast HER2 ICC	08/08/2022	09/09/2022		✓	✓
Cytology	08/08/2022	09/09/2022		✓	✓
ER - Breast Hormone Receptor	08/08/2022	09/09/2022		✓	✓
Gastric HER2 ICC	08/08/2022	09/09/2022		✓	✓
General Pathology	08/08/2022	09/09/2022			✓
Lymphoma	08/08/2022	09/09/2022		✓	✓
MMR	08/08/2022	09/09/2022		✓	✓
Neuropathology	08/08/2022	09/09/2022			✓
PD-L1	08/08/2022	09/09/2022		✓	✓
PDL1 IHC TNBC	08/08/2022	09/09/2022		✓	✓
PR - Breast Hormone Receptor	08/08/2022	09/09/2022		✓	✓
Run No: 138					

1 2 3 4 5 ...

25 items per page

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Sample Entry Details

## UK NEQAS

### Immunocytochemistry & In-Situ Hybridisation

#### Lymphoma

Run: 139

Participant: 13

Issue: 08/08/2022

Closing: 09/09/2022

CD8

Cyclin D1

Non-Completion

Reason

Method

Leica Bond Refine

Main Buffer

Bond Wash Buffer (AR9590)

pH

0

Automation / Manual

Instrument

Leica Bond III



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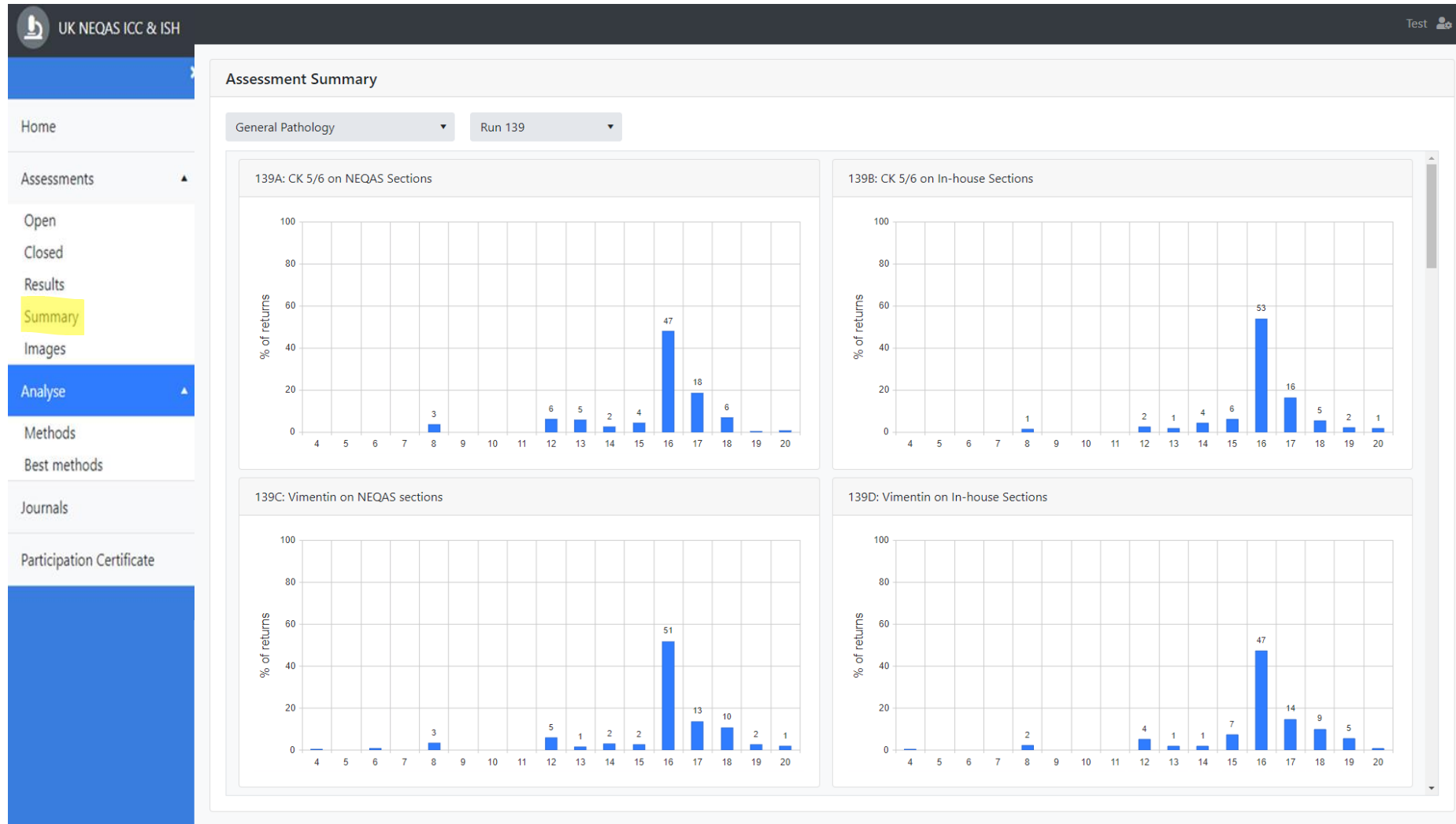
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General Pathology ▾ A - UK NEQAS ▾ All assessments ▾

# Assessment summary



# Assessment Summary

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Antibody Summary for CK 5/6

Value	Count	Percentage
.	13	4.58
BioGenex CK5/6 (AN588)	1	0.35
Cell Marque CK 5/6 (356M)	3	1.06
Cell Marque CK 5/6 (356M)	2	0.7
Dako / Agilent CK 5/6 (IR780)	13	4.58
Dako / Agilent CK 5/6 (IS780)	7	2.46

Antibody Summary for Vimentin

Value	Count	Percentage
Dako/Agilent (V9) concentrate M0725	48	16.9
Dako/Agilent (V9) Autostainer link IR630	9	3.17
Dako/Agilent (V9) Omnis GA630	22	7.75
Leica (SRL33) concentrate VIM-572-L-CE	5	1.76
Leica (V9) concentrate VIM-V9-L-CE	7	2.46
Leica (V9) Bond RTU PA0640	38	13.38


Heat Mediated Retrieval Summary for CK 5/6


Value	Count	Percentage
Ventana CC1 64 mins	62	21.83
Leica / Novocastra ER2 20 mins	44	15.49
Dako / Agilent Dako Omnis	21	7.39
Ventana CC1 Standard	16	5.63
Leica / Novocastra ER2 30 mins	14	4.93
Dako / Agilent Dako PTLink	13	4.58

Heat Mediated Retrieval Summary for Vimentin


Value	Count	Percentage
Leica / Novocastra ER1 20 mins	41	14.44
Ventana CC1 64 mins	34	11.97
Ventana CC1 32 mins	32	11.27
Dako / Agilent Dako Omnis	27	9.51
Ventana CC1 36 mins	16	5.63
Dako / Agilent Dako PTLink	12	4.23

# Run Images

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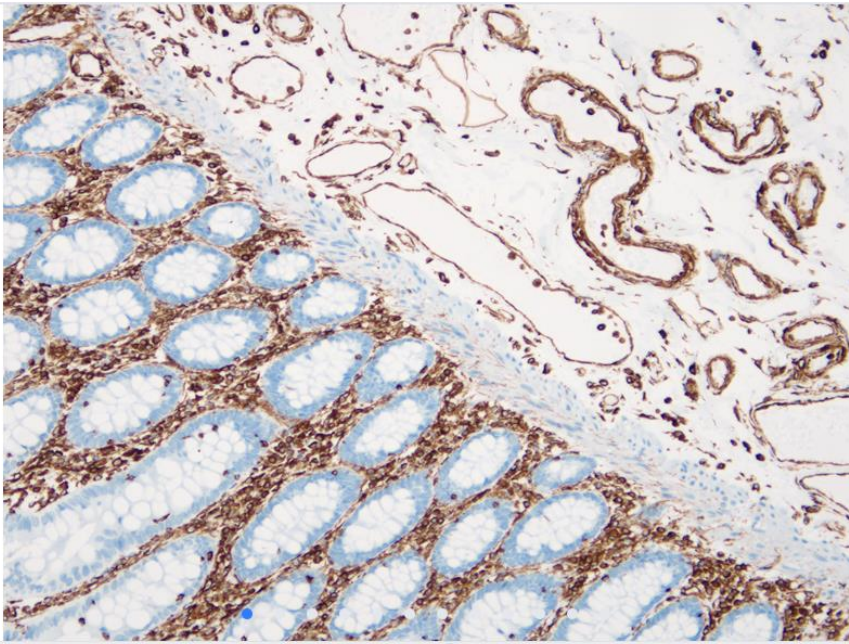
Journals

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Run 139 






Figure 1: Optimal demonstration of Vimentin staining on the UK NEQAS colon sample. Stained on the Ventana Benchmark ULTRA, with CC1 24 mins, using the Dako/Agilent (V9) concentrate M0725 antibody for 12 minutes, with Ventana OptiView detection. Participant scored 19/20.

ReportImages.pdf

# Best methods

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Antigen

CD34

Automation Instrument

Ventana Benchmark XT

Primary Antibody

CD34

Detection Kit or 2nd Layer

Ultraview Universal DAB Detection kit

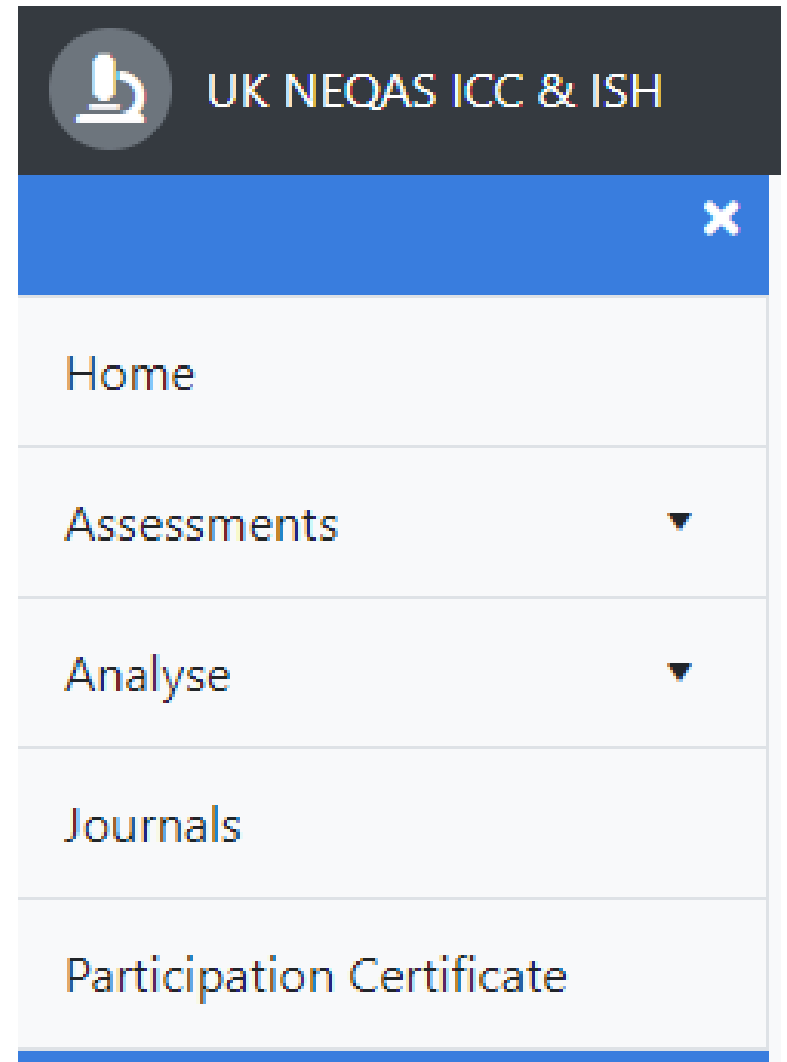
Actions

Search...

Field	Match	Method 1	Method 2
▼ Run			
ID	✓	93	93
▼ Antigen			
Name	✓	CD34	CD34
▼ Primary Antibody			
Supplier Name	✓	Leica / Novocastra	Leica / Novocastra
Product Name	✓	CD34	CD34
Dilution		50	40

# New EQA manager

- The new web server should improve the participant's experience
- Create you own custom reports
- Ability to change the password
- Participant user guide will be sent to all participant



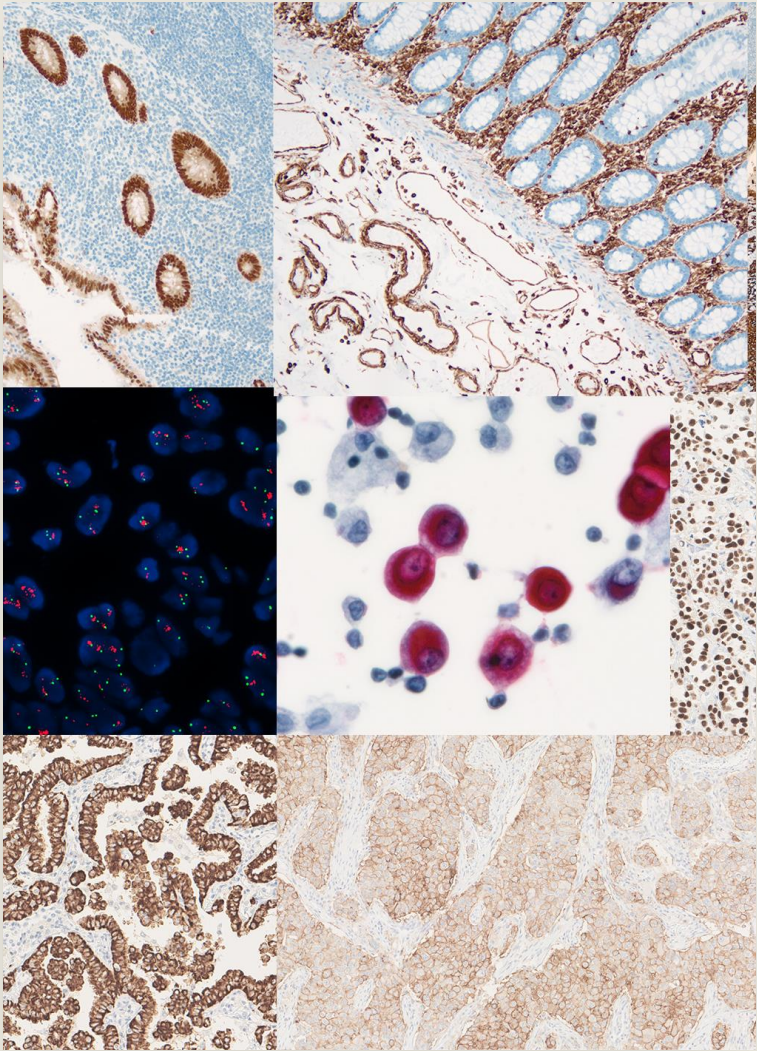
UK NEQAS ICC &  
ISH new laboratory  
premises



# Delivery



# Ventana BenckMark ULTRA





Dako Autostainer and Gemini AS

# Why the new lab?

- The addition of lab will enable UK NEQAS ICC & ISH to become more efficient.
- Introduction of the new modules.
- Will allow us to carry out research investigation into the factors that can have an impact IHC expression (few years ago an investigation on the slides adhesion was carried out).
- Organise workshops for educational purposes.
- Experience the issue that participants face and help with troubleshooting.

# Module updates

- Low HER2 –Andy Dodson
- Head & Neck (P16 & HPV) – Deepa Nayar & Dr Lissette Collins
- Sarcoma module



# New pilot sarcoma module



Why?



No sarcoma IHC EQA scheme available.



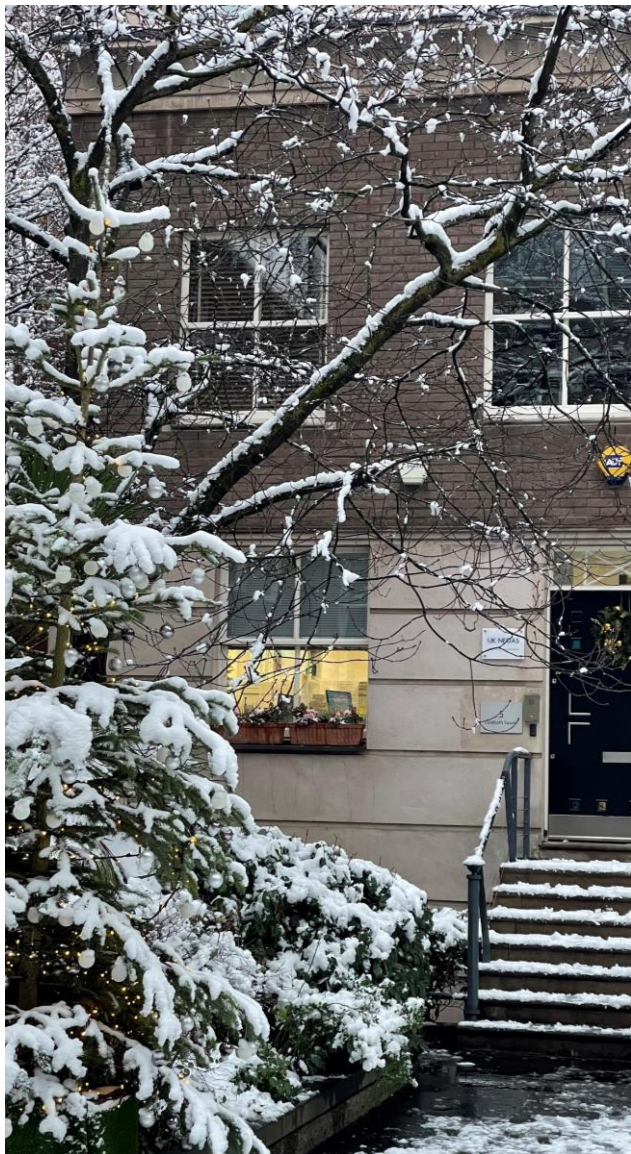
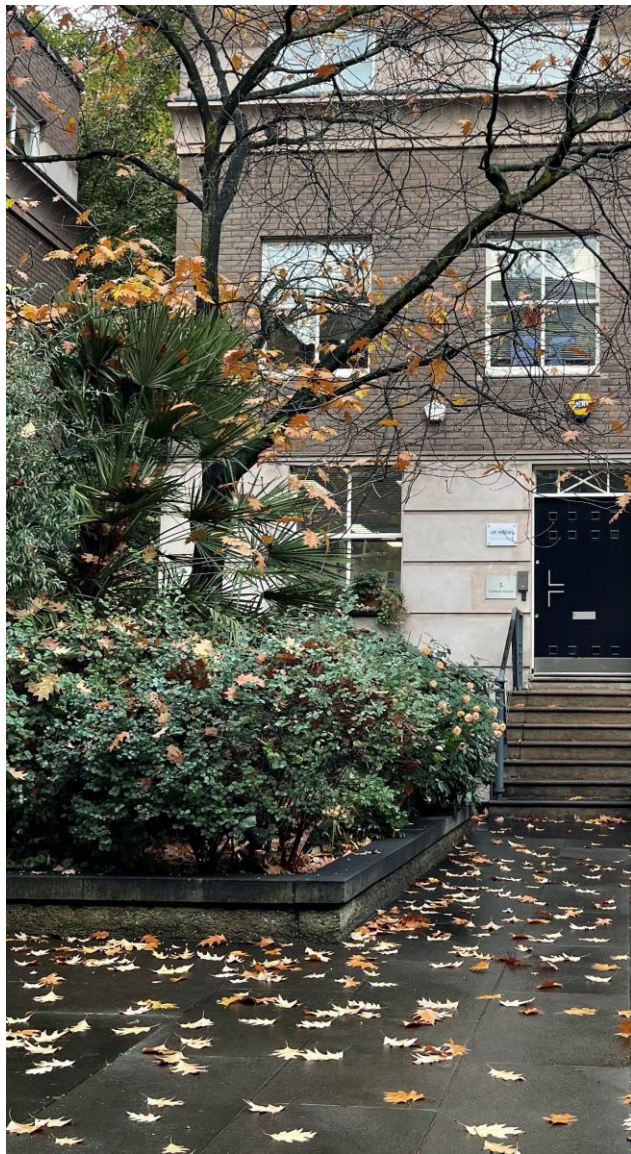
There is an increasing number of sarcoma IHC markers used in routine labs.



The need for labs to comply with ISO 15189 standards.

# Sarcoma markers

- Brachyury
- CAMTA1
- CD99
- ERG
- FOSB
- c-FOS
- H-Caldesmon
- G34W
- K36M
- H3K27me3
- SMARCB1/INI1
- MUC4
- Myogenin/MyoD1
- STAT6
- SOX-10
- TFE3
- TLE1
- pan-TRK



Thank you  
for your  
attention