

# Digital Landscape in Laboratory Medicine

Introduction to the meeting

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- General housekeeping announcements
- Why this topic/meeting was set up
  - Importance of the subject area
  - What members asked for
  - Value in dedicated meeting rather than session elsewhere
- What we hope the meeting will achieve
  - Understand more about Pathology IT systems and their potential
  - Get people thinking and talking about Pathology IT
  - Showcase what is possible using current digital tech
  - Share good practice/tools
  - Promote the “AI and Informatics” special interest group in ALM

# Housekeeping!

Usual Fire Safety stuff.....

Refreshments

First Coffee Break = 11am -11.15am

Lunch = 12.45pm to 13.45pm

Second Coffee Break = 14.50 -3.05pm

Panel Discussion at 15.35pm

Meeting to close at 16.05pm

# Who wanted to have a meeting on Pathology IT?

- Numerous suggestions for Pathology IT/Digital related topics

Reflex testing, Data mining  
MRI implementation  
LIMS configuration  
Locally developed digital tools

\*Coding/automation of things like LIMS testing, data analysis etc. Python/R and their use in the NHS.

\*clinical informatics - why it can help & how laboratory professionals can help it!

- So many received that it was decided to hold a dedicated meeting
- Lots of networks have either implemented, about to implement or about to start implementing LIMS
- ALM specialist interest group in AI and Informatics
- One-meeting or first in short series?

# The importance of Pathology IT

- Healthcare struggle to function without IT systems
- Modern clinical laboratories cannot function without IT systems
- Involved in all stages of the “total testing process”  
From decision support/ordering right through to interpretation
- How do you interact with the users of your laboratory?  
Phone, e-mail, MDT, comments, website, **IT SYSTEMS**
- Who are the stakeholders?  
Clinicians requesting tests, Lab teams using systems, IT specialists

# What is the role of a Clinical Scientist?

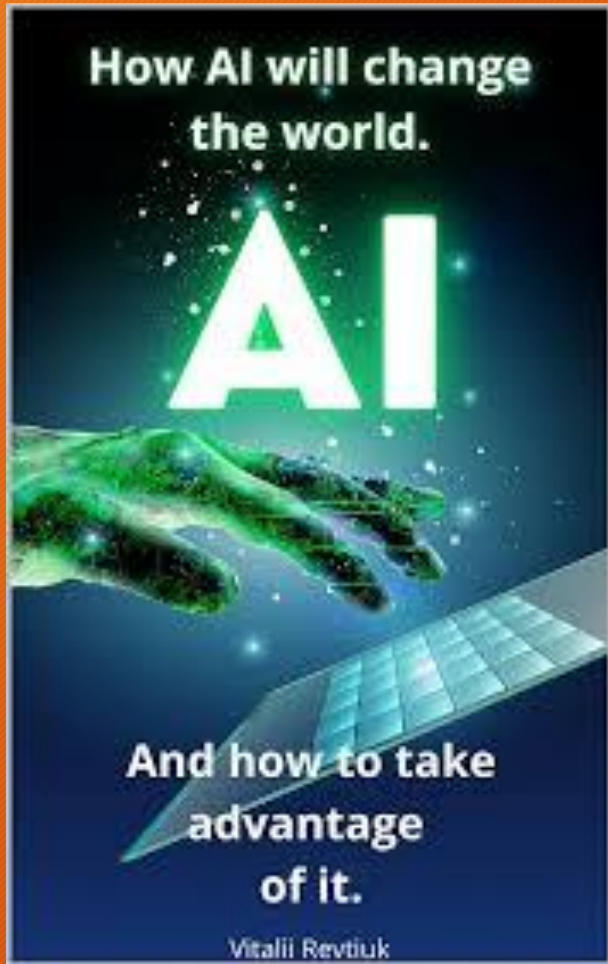


- Defined for me when I was a trainee.....
- A Clinical Scientist is somebody who can “Walk in both Worlds”
- Confident discussing technical things with a senior BMS or a complex patient with a clinician.
- Could we “reframe” this within a digital/pathology IT context?
- Confident discussing LIMS/Order comms config with an IT expert or translating clinical user needs into pathology IT systems
- The idea of “specialising” in pathology IT (like other specialist areas like paediatrics, toxicology etc)

## Morning session.....

- How does information flow through lab IT system
- How do you integrate LIMS and order comms
- How do you get MRI set up and working well
- How do you get the most out of your LIMS
- What terminology and pitfalls do you need to be aware of

# The power of modern IT systems and AI



- Laboratory IT systems are full of data!
- Can be labour intensive manually...
- How can digital technology help us in clinical labs?
- What has been developed already?
- How can we share this/adopt it more widely?
- What is still needed?
- When do we still need to use a human!

# Skyfall 2021 - Bond meets Q



## Afternoon session.....

- Series of talks on small scale practical innovations:

**Automation Frameworks - real world examples**  
**Analysis of “big data” using smart dashboards**

- Panel Discussion

I hope you enjoy the meeting!

Please help us make this more “interactive”.....



# When do we use digital tech and how do we integrate?

Skyfall 2011 - Bond meets Q



**Q:** I'll wager that I can do more damage sitting at my laptop in my pyjamas with a cup of Earl Grey than you can do in 1 year in the field

**Bond:** So why do you need me?

**Q:** Every now and then a trigger needs to be pulled