pharmig
EXCELLENCE IN MICROBIOLOGY

PRESENTS

Hot Topics in Pharmaceutical Microbiology:
Pharmig's 19th Annual Irish Conference 2026




PLUS, a one-day meeting covering: **Rapid & Alternative Micro Methods: From Sterility to AI Applications**

Dublin (Castleknock Hotel)

Wednesday 20th May 2026: *Annual Irish Conference*

Thursday 21st May 2026: *Rapid & Alternative Micro Methods: From Sterility to AI Applications*

Conference: Leading industry experts will cover key topics including:

- Regulatory updates
- Not All Bugs Are Equal – Designing Better Micro Decisions Under Uncertainty
- Case Study: UV-C Robot Disinfection –Application & qualification of an automated UV-C Disinfection robot for aseptic cleanrooms
- Case study: How horizontal airflow in a gloveless isolator was designed and verified to meet regulatory expectations using airflow visualization and CFD
- When Design Fails: Hygienic design lessons from pharmaceutical contamination events
- Case study: Environmental monitoring trending - Telling the contamination story
- The human skin microbiome: What has the 20 years of meta genomics taught us?

EARLY BIRD OFFER:

Send 2 or more people from the same site & discounts will apply until:

Friday 24TH April

(See booking form for more information)

One-day: Rapid & Alternative Micro Methods: From Sterility to AI Applications

Join us for a dynamic one-day event exploring the critical intersection of rapidly evolving AI and cutting-edge rapid microbiological methods. Dive into strategic AI readiness, regulatory updates, and practical applications across sterility, bioburden, environmental monitoring, and a global view of ARMM selection strategies. Network with peers and experts to drive efficiency and innovation in your organisation

PHARMIG'S 19TH ANNUAL IRISH CONFERENCE 20TH MAY DUBLIN

HOT TOPICS IN PHARMACEUTICAL MICROBIOLOGY

PHARMIGS 19TH ANNUAL IRISH CONFERENCE WEDNESDAY 20TH MAY 2026

09.00 – 09.30

Registration

09.30 – 09.40

Chairs Welcome

Patrick Nieuwenhuizen – Managing Director, Consultant, Paradigm & Pharmig Committee

09.40 – 10.20

Regulatory updates addressing steriles and non-steriles

Patrick Nieuwenhuizen – Managing Director, Consultant, Paradigm & Pharmig Committee & Edel Fitzmaurice - Quality Director/QP, Fitzmaurice Scientific Ltd

10.20 – 11.00

Not All Bugs Are Equal – Designing Better Micro Decisions Under Uncertainty

Microbiology frequently forces teams into the 'grey zone': results may be within compendial limits, yet the organism, product, route, and patient population can shift the risk dramatically. There is no universal 'danger list' that solves this - 'objectionable' is inherently contextual and the quality of the decision depends on how well we structure it.

In this 35-minute talk, Valerie Mulholland applies decision-science to microbial findings in pharmaceutical manufacture, showing how SMEs can improve decision quality under uncertainty by (1) making the hidden decision nodes explicit, (2) clarifying decision criteria, (3) strengthening knowledge and its reliability (SoK), (4) reducing uncertainty and (5) converting recurring scenarios into simple rules/decision trees

Valerie Mullholland - Principal Consultant, GMP Services Ltd

11.00 – 11.30

Meet & greet the exhibitors with tea/coffee

11.30 – 12.10

Case Study: UV-C Robot Disinfection –Application & qualification of an automated UV-C Disinfection robot for aseptic cleanrooms

- Introduction to UV-C disinfection
- AstraZeneca's approach to a global validation
- Including study design, acceptance criteria and data integrity in GMP settings
- Application and integration into AZ cleanrooms: how the autonomous UV robot is deployed alongside existing contamination control
- Conclusion and future use of UV light beyond robot

Caitlin Cooke – Scientist Pharmaceutical Technology & Development, AstraZeneca

12.10 – 12.50

Case study: How horizontal airflow in a gloveless isolator was designed and verified to meet regulatory expectations using airflow visualization and CFD

- This case study challenges long standing norms, showing why horizontal airflow, not traditional vertical flow was chosen to strengthen aseptic control in a closed gloveless isolator.
- The robotic, gloveless isolator breaks from convention by removing human driven contamination pathways and keeping open containers consistently protected within unidirectional airflow.
- Smoke visualization and CFD modelling exposed airflow realities that traditional assumptions overlook, directly shaping diffuser design, airflow parameters, and optimized biofluorescent particle counter EM locations.
- This airflow strategy supports a shift away from passive, non representative monitoring and toward an EM program that actively interrogates risk, sampling where contamination could emerge, not just where it has always been measured

Áine Brennan - Senior Manager, Qualification and Regulatory - Aseptic Filling, Vanrx now part of Cytiva

12.50 – 14.00

Lunch in the exhibition area

14.10 – 14.40

When design fails: Hygienic design lessons from pharmaceutical contamination events

- Explores the core principles of hygienic design & common design flaws
- Demonstrates how materials, surface finishes, seals, valves, and equipment layout directly influence cleanability and biofilm control
- Aligns hygienic design expectations with regulatory frameworks
- Uses a real contamination case study to show how poor design led to product recall

Anna Lovatt: Principal Global Technical Consultant, Ecolab & Pharmig Committee

14.40 – 15.10

Open discussion sessions

The aim of these sessions is to encourage discussion, share issues, solutions and experiences in a smaller, more informal environment helping you to benchmark against other delegates/companies.

Go to **page 3** to view open discussion sessions

HOT TOPICS IN PHARMACEUTICAL MICROBIOLOGY

PHARMIGS 19TH ANNUAL IRISH CONFERENCE WEDNESDAY 20TH MAY 2026

15.10 – 15.30

Meet & greet the exhibitors with tea/coffee

15.30 – 16.10

Case study: Environmental monitoring trending - Telling the contamination story

- Expectation for trending
- Case studies

Denise Reddy – Associate Director Quality Laboratory Operations, MSD Brinny

16.10 – 16.50

The human skin microbiome: What has the 20 years of meta genomics taught us?

- What does the mean for clean room controls?
- What does this reveal about the operator controls?
- What implications are there for health, sunburn, piercings and tattoos?
- How should we trend microbes?
- What is transient and residential?
- Where next and personalised medicines?

Professor Tim Sandle, PhD. – University College London & Pharmig Committee

16.50 – 17.00

Panel discussion/ additional questions / close of Conference

OPEN DISCUSSION SESSIONS

The aim of these sessions is to encourage discussion, share issues, solutions and experiences in a smaller, more informal environment helping you to benchmark against other delegates/companies.

(Attendees to choose ONE out of the 2 listed – please tick which one on your booking form)

A) Risk based decision making and objectionable organisms in Non-Steriles: determining if a microorganism is of concern or objectionable

Led by: Valerie Mullholland - Principal Consultant, GMP Services Ltd

B) Isolators: Discussing open door set-up of isolators and regulatory expectations to approach this as an aseptic process.

Led by: Patrick Nieuwenhuizen – Managing Director, Consultant, Paradigm & Pharmig Committee

Please note: *All information addressed by the speakers are of their own / company opinions. Pharmig is not responsible for any content presented at the meeting.*

Pharmig also has the right to change the programme at any time due to unforeseen circumstances.

CLICK HERE TO SEE PHARMIG'S RANGE OF PUBLICATIONS & FACT SHEETS THAT MAY BE OF INTEREST TO YOU.

RAPID & ALTERNATIVE MICRO METHODS: FROM STERILITY TO AI APPLICATIONS:

THURSDAY 21ST MAY 2026

09.00 – 09.30

Registration with tea/coffee

09.30 – 09.40

Chairs Welcome

Mehmet Davrandi – Industrial Microbiology – Innovation – Rapid Micro Technologies, Procter & Gamble & Pharmig Committee Member

09.40 – 10.20

The next three years: building AI- ready organisations, AI-ready leaders & AI-ready microbiologists. By the end of this session participants will:

- Have a sense of urgency. AI applications provide a pivotal moment. We all have a choice. Act or be acted upon. Use AI as a coworker – or be replaced by someone who is.
- How to become an AI 'Rational Optimist' and this means for the Pharmaceutical Microbiologist
- Have a clear understanding of terminology: AI, Machine Learning, Deep Learning, Neural Networks, Generative AI and where the regulations apply – and don't
- Know how to prepare your lab and your organisation – and be able to conduct an AI readiness assessment
- How to implement AI from the ground up from Governance, Ethics, Oversight to practical application on the shop floor and in the lab. How the best succeed, how the rest fail
- Preparing your children and your colleagues to succeed in the era of AI. What uniquely human qualities must they perfect? From Socratic Provocation to Abductive Reasoning – and everything in between
- What the next 2-3 years will look like

Martin Lush – Exec Leader - Biotech Operations & QP, GxP AI Adoption. AI literacy (basic/advanced) | Expert auditor - AI applications in QMS & QP, Martin Lush Consulting Ltd

10.20 – 11.00

Regulatory updates in microbiological rapid methods

Professor Tim Sandle, PhD. – University College London & Pharmig Committee

11.00 – 11.30

Mingle with exhibitors over tea & coffee

11.30 – 13.00

Rapid Speed Dating with sponsored vendors

Delegates will be divided into small groups and rotate around exhibition stands that have sponsored this section of the meeting to view live demonstrations of rapid method technologies. A great way to view latest technologies all in one go!

13.00 – 14.00

Lunch in the exhibition area

14.00 – 14.40

AI concepts for environmental monitoring trending

- Automated trending reports as an alternative to manual Excel spreadsheet trending
- Generative AI prompt development for large data set trending and assessment
- Concept of predictive/continuous monitoring AI tool to support Aseptic manufacturing

Emily Butterworth – Laboratory Apprentice (Microbiology), Astra Zeneca

RAPID & ALTERNATIVE MICRO METHODS: FROM STERILITY TO AI APPLICATIONS:

THURSDAY 21ST MAY 2026

14.40 – 15.20

Initial Results: Detection of multiple microorganisms within 3 days at high and low spike levels

This talk introduces isothermal biocalorimetry approach that detects microbially generated heat in real time at a high sensitivity, enabling microbial detection in a non-destructive manner in ≤72 hours for Compendial challenge microorganisms (Ph. Eur. 2.6.1 and 2.6.27 / USP <71>). Key highlights include:

- Preliminary results on generic matrix
- Optimization strategies for detecting challenging microorganisms
- Insights into the planned GMP validation and comparability study, designed to establish specificity, repeatability, robustness, and ruggedness
- Pathway for routine implementation

Negar Mozaheb – Senior Scientist- Microbiology Innovation Lab Lead, Johnson & Johnson Innovative Medicine

15.20 – 15.40

Afternoon break

15.40 – 16.20

Global view of different ARMM selection and implementation in Sanofi

- Introduction and regulatory landscape on Alternative and Rapid Microbiological Methods (ARMM)
- Showcasing Sanofi's comprehensive journey in implementing ARMM's across its global operations.

Attendees will learn about the establishment of Sanofi's ARMM Community of Practice launched in 2022, which facilitates knowledge sharing and collaboration across all sites. How Sanofi successfully implemented technologies including rapid mycoplasma detection by NAT, animal-free reagent endotoxin testing, and advanced bacterial identification systems that significantly reduce testing times while improving accuracy. And current validation projects on going for Mycobacteria detection by NAT and rapid sterility testing will be discussed, as well as automation for incubation and plate reading.

Thierry Bonnevay – Global Analytical Microbiology Expert, Analytical Sciences, R&D Sanofi

16.20 – 16.45

Panel discussion/ additional questions / close of rapid method meeting

Please note: *All information addressed by the speakers are of their own / company opinions. Pharmig is not responsible for any content presented at the meeting.*

Pharmig also has the right to change the programme at any time due to unforeseen circumstances.

PRICING / BOOKING FORMS / PAYMENT DETAILS (6&7)

DISCOUNTED OFFERS for sending 2 or more delegates ends on Friday 10th April 2026

INFORMATION ON FEES & PAYMENTS

- **Please circle the relevant meeting fee(s) and dates** outlined in Booking Form **A, B or C below**
- **You will need to send pages 6,7,8 back to Pharmig to register your booking**

BOOKING FORM A CONFERENCE: HOT TOPICS IN PHARMACEUTICAL MICROBIOLOGY WEDNESDAY 20TH MAY

Send 2 or more people from the same site and receive a discount on the full 1st attendee rate as outlined below until Friday 24th April 2026

MEMBER FEES	EURO/STERLING		NON-MEMBER FEES	EURO/STERLING	
1ST MEMBER	€778 / £655	☐	1ST NON-MEMBER	€893 / £755	☐
2ND MEMBER	€662 / £555	☐	2ND NON-MEMBER	€778 / £655	☐

BOOKING FORM B RAPID & ALTERNATIVE MICRO METHODS: FROM STERILITY TO AI APPLICATIONS THURSDAY 21ST MAY

Send 2 or more people from the same site and receive a discount on the full 1st attendee rate as outlined below until Friday 24th April 2026

MEMBER FEES	EURO/STERLING		NON-MEMBER FEES	EURO/STERLING	
1ST MEMBER	€778 / £655	☐	1ST NON-MEMBER	€893 / £755	☐
2ND MEMBER	€662 / £555	☐	2ND NON-MEMBER	€778 / £655	☐

BOOKING FORM C BOOKING BOTH & RAPID & ALTERNATIVE MICRO METHODS: FROM STERILITY TO AI APPLICATIONS – 20TH & 21ST MAY

If you wish to attend both meetings – further discounted fees are as follows: Please tick relevant boxes below

MEMBER FEES	EURO/STERLING		NON-MEMBER FEES	EURO/STERLING	
1ST MEMBER	€1324 / £1110	☐	1ST NON-MEMBER	€1420 / £1210	☐
2ND MEMBER	€1177 / £1000	☐	2ND NON-MEMBER	€1324 / £1110	☐

*NOTE: *Euro fee is higher to cover conversion rates*

FEES INCLUDE: lunch/ refreshments on the day and a link to download presentations in advance of the meeting(s).
Conference fees do not include accommodation, which must be booked and paid for directly with the hotel.

REGISTRATION & PAYMENT INFORMATION (6&7)

Please reserve ____ place(s) for the **Pharmig Annual Irish Conference and Rapid & Alternative Micro Methods: From Sterility to AI Applications running on the 20th & 21st May – Castleknock Hotel, Dublin**

Company: _____

Address : _____

Contact name (if different from the delegate): _____

Tel: _____ **Email:** _____

- **Please complete the relevant booking sections below - in person**
- **Please tick dates attending / Please complete the payment section on the next page**
- **Please send back pages 6&7 when booking**

IN PERSON ATTENDANCE

TICK REQUIRED DATES CONF DAY 20TH MAY ☐ RAPID METHOD DAY 21ST MAY ☐

1ST DELEGATE

Name: _____

***Email:** _____

Job Title: _____

Dietary requirements: _____

CONFERENCE: ATTENDING INFORMAL DISCUSSION SESSIONS.
Please tick which one

A) Non-Sterile ☐

B) Isolators ☐

IN PERSON ATTENDANCE

TICK REQUIRED DATES CONF DAY 20TH MAY ☐ RAPID METHOD DAY 21ST MAY ☐

1ST DELEGATE

Name: _____

***Email:** _____

Job Title: _____

Dietary requirements: _____

CONFERENCE: ATTENDING INFORMAL DISCUSSION SESSIONS.
Please tick which one

A) Non-Sterile ☐

B) Isolators ☐

Please complete the email address if you wish to keep updated on this and future Pharmig meetings

PAYMENT INFORMATION

Email or fax your completed booking form for a confirmed place:
Email: **info@pharmig.org.uk** Fax: to +44 (0) 1920 871 156
Please tick the relevant box below

☐ Please raise an invoice to cover the delegate fee(s) £/€ _____

☐ **UK BACS** Sort code: **60 19 28** Account: **80843867** £/€ _____

☐ Wire Transfer: Natwest Bank, 118 High Street, Slough, Berkshire SL1 1JH £/€ _____
SWIFT (BIC) NWB KGB2L Account: 80843867
IBAN GB64 NWBK 6019 2880 843 867

☐ Please quote company approved purchase order no _____ £/€ _____

☐ I/we wish to pay by credit card (Pharmig will contact you for details) £/€ _____

VENUE INFORMATION

DUBLIN

THE VENUE

- Castleknock Hotel – Porterstown Road, Diswellstown, Dublin 15. D15 WNR7T
- 25 min drive from Dublin Airport with good road access to Cork and the rest of the country
- The hotel has full conference facilities with accommodation, dining choices and spa area.

ACCOMMODATION

A limited number of bedrooms have been reserved at a special rate of €210 (B&B single occupancy) for overnight delegates (please book early to avoid disappointment).

Rooms need to be booked directly with the hotel.
Please call The Castleknock Hotel on **+353 1 640 6300** – and quote Pharmig to ensure you receive the discounted rate.

ADDRESS: Castleknock Hotel, Porterstown Road, Diswellstown, Dublin 15. D15 WNR7T

CANCELLATION POLICY

Written cancellation will be accepted up to 30 days prior to the event, and all cancellations will incur a fee. No refunds are available 15 working days before the start date and full course fees will be due for delegates who fail to attend. Substitutions may be made at any time, preferably in writing to Maxine Moorey.

PRIVACY POLICY

By registering for these events, I accept the processing of my Personal Data. Pharmig will use my data for the processing of this order for which I hereby declare to agree that my personal data is stored and processed. Pharmig will only send information in relation to this order or similar events/publications/training courses etc. Pharmig may send your name and company only to other companies attending the same event in the form of an attendee list.

Your full personal data will not be disclosed to third parties. See also privacy policy at **https://www.pharmig.org.uk/en/privacy-policy/**.

You can ask for the modification, correction or deletion of your data at any time via an email to **maxine@pharmig.org.uk**

Pharmig Publications, Fact Sheets & Online Training Modules

Pharmig publications, fact sheets, and on-line training modules have been written and produced by industry leaders. They contain and cover key information relating to GMP standards and regulations.

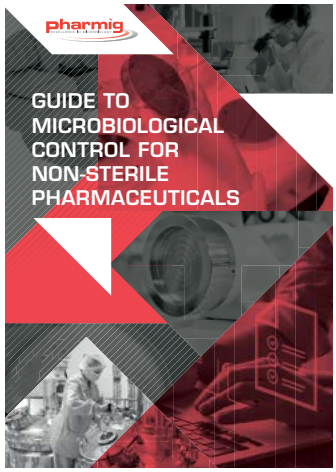
Publication orders can be placed via the website - **www.pharmig.org.uk**

Guide to microbiological control for Non-Sterile pharmaceuticals

This Guide is relevant to non-sterile pharmaceutical, cosmetic and toiletry manufacturing industries. There have been significant changes in the microbiological regulations, controls, and testing of non- sterile products. Much of the changes has been prompted by the many recalls of non-sterile products worldwide.

- Microbiological testing and data handling
- Facility and equipment design
- Objectionable microorganisms
- Cleaning & disinfection
- Risk assessment & data management
- Environmental monitoring
- Regulatory expectations for non-sterile manufacture

Member **£80** Non Member **£110**



Cleaning and disinfection of pharmaceutical facilities - a road map to regulatory compliance

The guide has been completely revised and re-written to provide you with a roadmap to regulatory compliance for cleaning & disinfection. The new text will walk you through the steps needed to design, validate, and implement an effective cleaning and disinfection programme. Including:

- Identifying and assessing risks associated with cleaning and disinfection
- User requirements for cleaning agents and disinfectants
- Supplier qualification
- Disinfectant efficacy testing and validation
- Controls for routine use – including application methods, in-coming QC testing, and periodic review of the programme

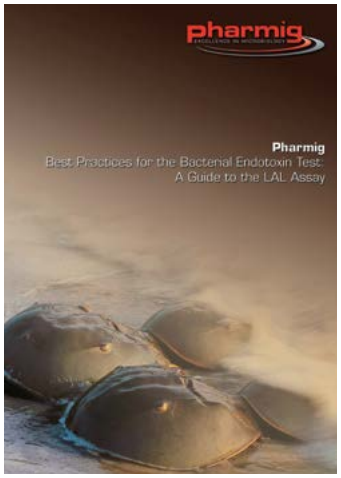
Member **£60** Non Member **£85**

Best practices for the bacterial endotoxin test: A guide to the LAL assay

This guide to the Bacterial Endotoxin Test (BET) provides the reader with an overview of the history, regulation and practical use of the different BET assays. Information on method development, validation and routine testing are discussed as well as more advanced subjects such as depyrogenation, medical devices, trouble shooting and problem samples.

The guide should provide a useful reference document for LAL users and laboratory management.

Member **£50**
Non Member **£75**



Guide to cleanroom operation and contamination control

This publication provides a short and informative introductory guide to cleanrooms. Cleanrooms provide controlled, critical environments for both sterile and non-sterile pharmaceutical manufacturing.

The guide examines:

- Cleanrooms
- Different grades of cleanrooms
- The important aspects of physical control
- Contamination control and environmental monitoring
- Important cleanroom parameters required by the regulatory standards

Member **£60**
Non Member **£85**

For more information contact
Tel: +44 (0) 1920 871 999 **Fax:** +44 (0) 1920 871 156
Email: info@pharmig.org.uk **Web:** www.pharmig.org.uk

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Pharmig Publications

Publication orders can be placed via the website - www.pharmig.org.uk

Guide to microbiology laboratories in the pharmaceutical industry Version 3 - available September 2026

This updated Guide serves to compile and distil down in one place, all the various guidance that already exist on how best to run a microbiology laboratory. The result is this guide, which details what Pharmig considers to be best practices for a microbiology laboratory based in the pharmaceutical industry.

Chapters covered in this 3rd edition include:

- Relationship to the quality unit
- Training
- Microbiology facility design for testing of pharmaceutical products
- Qualification and maintenance of laboratory equipment
- Cleaning & disinfection of the laboratory and equipment
- Laboratory consumables
- Culture media
- Microorganisms
- Method verification and suitability
- Microbiological testing for starting materials, intermediates & finished product
- Microbiological test methods
- Rapid microbiological methods (RMMs) & moderns microbiological methods
- Environmental monitoring
- Interpretation of assay results (out of specification, EM excursions, out of trend handling)
- Documentation and laboratory records

Member **£60**
Non Member **£85**

Guide to bacterial identification

Microbial identification represents an important part of the microbiology function. This includes screening products for objectionable organisms, profiling the environmental microbiota, and investigating out-of-limits events with a view to assigning a probable point of origin. In deciding what and when (and subsequently to what level) to identify, and by the way of which methods, requires an identification strategy. This is a document each microbiology laboratory should develop.

During a Pharmig presentation on microbial identification strategy and a Q&A session that followed there was a variation in approach, and sometimes a lack of clarity, concerning good identification practices and in outlining a strategy of what to identify and when. To provide guidance for members and other microbiologists, in the way of a training aid, and to provide the basis for microbiology laboratories to benchmark against, this guide was put together.

Chapters within the Guide include:

- Cleanrooms
- Different grades of cleanrooms
- The important aspects of physical control
- Contamination control and environmental monitoring
- Important cleanroom parameters required by the regulatory standards

Member **£60**
Non Member **£85**

Current perspectives on environmental monitoring - Review # 1

This review surveys some of the current practices, trends and approaches to environmental monitoring.

Technical articles include:

- Constructing an environmental monitoring programme
- Particle monitoring & control
- Environmental monitoring & risk assessment
- Microbiological risk assessment case study

Member **£60**
Non Member **£85**

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Pharmig Fact Sheets

Publication orders can be placed via the website - www.pharmig.org.uk

Commonly Occurring Organisms – Pharmig's latest series of 8 fact sheets

This series of 8 fact sheets will cover:

- Dermacoccus nishinomiyaensis
- Corynebacterium tuberculostearicum
- Cutibacterium acnes
- Micrococcus luteus
- Kocuria rhizophila
- Staphylococcus hominis
- Paenibacillus glucanolyticus
- Microbacterium liquefaciens

Member **£30** Non Member **£50**

A series of 8 Water Microbiota Fact Sheets

This series of 8 fact sheets will cover:

- Ralstonia pickettii
- Stenotrophomonas maltophilia
- Burkholderia cepacia complex
- Acinetobacter baumannii
- Brevundimonas diminuta
- Sphingomonas paucimobilis
- Pseudomonas aeruginosa
- General overview of water microorganisms

Member **£30** Non Member **£50**

LAL Fact Sheets

A series of Limulus Amoebocyte Lysate (LAL) laminated Fact Sheets on pyrogen/ endotoxin testing have been produced by the LAL Action Group.
The series of 6 LAL fact sheets (as a package) currently available are:

- What is LAL/BET?
- Calculation of Endotoxin Limits
- Medical Devices
- Gel Clot Methods
- Photometric Methods
- Product Validations Quantitative Methods

Member **£20**
Non Member **£35**

A series of 8 Microorganisms Fact Sheets

The microbial enumeration test and test for specified microorganisms can represent a challenging area for pharmaceutical microbiology. To act as a training aid for new staff, and an aide memoire for more experienced staff - Pharmig has produced eight fact sheets. Seven of the fact sheets profile each one of the key microorganisms (or microbial groups), using colour photographs illustrating growth on agar and by Gram-stain. These are supported by facts relating to the organism's profile and methods for identification. The eighth sheet offers some useful guidance about the interpretation of the test.

Member **£30**
Non Member **£50**

A series of 8 Major Objectionable Microorganisms Fact Sheets

One of the expectations of GMP regulators is that microbiology laboratories are knowledgeable about the main objectionable microorganisms that could be found in pharmaceutical products or in the manufacturing environment. The identification, characterisation and interpretation of these microorganisms can be challenging. To act as a training aid and information resource, Pharmig has produced eight new fact sheets (Fact Sheet Pack 2). Seven of the fact sheets profile some of the most important objectionable microorganisms (together with Geobacillus stearothermophilus, used for biological indicators). An eighth fact sheet provides useful information about risk assessing objectionable microbes.

Member **£30**
Non Member **£50**

A series of 8 Pharmaceutically Important Fungi Fact Sheets

This set of fact sheets features seven fungi which feature high in causes of fungal contamination of pharmaceutical products and which have led to several major pharmaceutical product recalls. Each fact sheet presents information about the fungus, including growth conditions and product / patient risks. Each sheet details a striking photograph of the fungus macroscopically, growing on suitable agar, and microscopically (as a methylene blue stain.) The eighth fact sheet is a guide on the staining and microscopic examination of fungi, including key features to note to help you with identification. The fact sheets are laminated, making them suitable for the laboratory bench, and come enclosed within a presentation folder.

Member **£30**
Non Member **£50**

For more information contact
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Pharmig's Interactive Online Training Modules

The Pharmig Training Portal can be used via a stand-alone log-on, or integrated into your electronic learning management system.

The Pharmig Training Portal gives your team access to high quality online training.

By watching a series of detailed videos, followed by a multiple-choice assessment, they will learn about essential subjects relating to their working environment. On successful completion of a module, participants will be issued with a certificate of completion.

Personnel training made easy, quantifiable and interactive. These training modules are aimed at those who are new to working in GMP cleanrooms including production, cleaning, QA, QC and engineering staff.

1 Module 1: Cleaning & Disinfection of Cleanrooms

Module Chapters Include:

- Introduction to contamination in cleanrooms
- Preparation and storage of cleaning agents and disinfectant
- Application Techniques

2 Module 2: Gowning for Non-sterile Facilities

Module Chapters Include:

- The importance of personal hygiene
- Hand hygiene – washing, disinfection, gloving
- Gowning for non-sterile areas
- Gowning for laboratory areas
- Garment laundering

3 Module 3: Gowning for Sterile Facilities

Module Chapters Include:

- The importance of personal hygiene
- Hand hygiene – washing, disinfection, gloving
- Gowning for non-sterile areas
- Gowning for sterile areas
- Gowning for laboratory areas
- Gowning qualification
- Garment laundering and sterilisation

More detailed information regarding each module chapters and learning can be found at: www.pharmig.org.uk/en/products/online-training

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