

Topics in microbiology and infection: 2023

BSMT exhibition preview

The British Society for Microbial Technology's Annual Microbiology Conference once again hosts 20 leading biomedical science companies which are supporting the event with their presence. *Pathology in Practice* offers a brief preview of the goods and services which they have to offer, which can be viewed during breaks in the scientific programme.

BD Integrated Diagnostic Solutions

BD is one of the largest global medical technology companies in the world and is advancing the world of health by improving medical discovery, diagnostics and the delivery of care. The company has a vision for diagnostic stewardship: a full systems approach, from patient identification to results reporting. Every step of the diagnostic pathway harmonised to provide reliable results, reduce costs, strengthen process efficiency and instil safety.

BD provides solutions from collection to results, to drive impactful outcomes in patient and healthcare worker safety through reducing diagnostic errors, improving efficiency and integrated



BD Integrated Diagnostic Solutions.

diagnostic stewardship. A few areas where the company partners with customers to optimise patient care include: BD Integrated Specimen Management Solution, BD Respiratory Infection Solution, BD Bloodstream Infection (BSI) Solution, BD Integrated Microbiology Solution, BD Tuberculosis (TB) Solution and BD Cervical Cancer Screening. Find out how BD can support your journey to an integrated patient pathway. It is BD's mission to unify every team across the diagnostic pathway and drive diagnostic excellence across the entire care continuum, so that every diagnostic test can make a difference.

www.BD.com

BioConnections

Introducing the REAL mini and midi system used for the collection, fixation and concentration of intestinal parasites from faecal samples. The collection vial contains glass beads to facilitate homogenisation of the sample and total fix, a strong formalin free fixative that effectively retains the morphology of the parasites. Two different formats are available to suit the needs of any laboratory.

The concentration method is a modified version of the Ritchie method, recommended by the WHO, and it is carried out with an integrated double horizontal filter that separates larger



BioConnections.

faecal debris, allowing a clean sediment to be obtained after centrifugation.

www.bioconnections.co.uk

bioMerieux

As a world leader in microbiology for 60 years, bioMerieux is committed to major public health issues in the field of infectious diseases, such as antimicrobial



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resistance, respiratory infections and sepsis.

bioMérieux provides innovative end-to-end diagnostic solutions that improve patient outcomes, help prevent antimicrobial resistance and improve antimicrobial stewardship, as well as empowering clinicians and laboratorians in decision making by providing actionable data through integrated IT and DATA solutions.

www.biomerieux.com

Bruker

LiquidArray Gastrointestinal is a syndromic panel for gastrointestinal infections contributing to a streamlined solution from patient sample to results at a glance.

Simplified syndromic panel testing for gastrointestinal infections: Next generation multiplexing with LiquidArray provides simultaneous detection of up to 26 of the most prevalent bacterial, viral and parasitic pathogens and pathogen associated toxins.

High throughput testing: Detecting 26 pathogens in a two-well format supports a simple laboratory workflow and high throughput testing for gastrointestinal infections.

The FluoroCycler XT in combination with FluoroSoftware XT_IVD provides results at a glance. Automatically generated reports allow fast confident reporting, without the need for individual interpretation.

www.bruker.com



Bruker.

to perform world-class PCR testing.

Cepheid's broad test portfolio spans respiratory infections, blood virology, women's and sexual health, TB and emerging infectious diseases, healthcare-associated infectious diseases, oncology and human genetics. The company's solutions deliver actionable results where they are needed most – from central laboratories and hospitals to near-patient settings.

www.cepheid.com

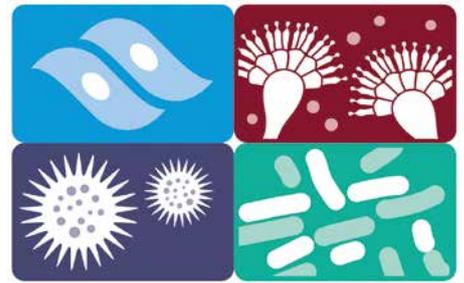
Culture Collections (UKHSA)

The UK Health Security Agency (UKHSA) is the custodian of four unique collections of expertly preserved, authenticated cell lines, bacteria, viruses and fungi of known provenance. The collections are developed, managed and maintained by highly trained, dedicated staff

working in accordance with internationally recognised quality standards including certification to ISO 9001:2015.

Scientists across the world use Culture Collections' cell lines and microbial strains as controls for clinical diagnostic and antimicrobial susceptibility testing, food, water and environmental microbiology testing, quality control testing, validation studies, and in disease research and drug discovery. All bacterial and fungal strains are available in a freeze-dried format, in fused-glass ampoules. Viruses and cell lines are supplied as cryopreserved ampoules of living viruses/cells.

Culture Collections also provides authenticated, quality controlled nucleic acids in a variety of formats. Nucleic acids are used increasingly in research and clinical diagnostic settings as an alternative to live microorganisms in disease research, as a means of producing vaccines, as a tool for identifying potential drug targets for novel therapeutics in



Culture Collections (UKHSA).

drug development, and also as gene controls in diagnostic PCR assays. Culture Collections' products and associated services support the scientific community with integrity, quality and expertise.

www.culturecollections.org.uk

DiaSorin

DiaSorin is pleased to be supporting the BSMT and the company is looking forward to attending this year's Annual Microbiology Conference for the first time. The test menu on the LIAISON XL and XS continues to grow and DiaSorin has some exciting innovations being introduced.

LIAISON MeMed BV is a pioneering assay, utilising three host immune proteins and AI to accurately distinguish between bacterial and viral infections from a simple serological sample. Since bacterial and viral infections are frequently clinically indistinguishable, physicians are often uncertain when deciding whether to treat an illness with antibiotics. The increasing importance of antimicrobial stewardship is also vital to consider. LIAISON MeMed BV provides host immune response information, helping physicians make more informed treatment decisions.

Through the recent acquisition of Luminex, the portfolio of molecular-based products continues to expand. From point-of-care products to highly multiplexed, higher throughput testing, there is a wide range of customer solutions available including the NxTAG Gastrointestinal Pathogen Panel which detects 16 bacterial, viral, and parasitic targets in a single-well format, delivering same-day results, in a

Cepheid

Cepheid is dedicated to improving healthcare by pioneering molecular diagnostics that combine speed, accuracy, and flexibility. The company's GeneXpert systems and Xpert tests automate highly complex and time-consuming manual procedures, providing a better way for institutions of any size



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streamlined and simplified workflow.

DiaSorin looks forward to showcasing these, and other new developments, to delegates visiting its stand at the Conference.

www.diasorin.com

Don Whitley Scientific

Don Whitley Scientific (DWS) is best known for its range of world-renowned modified atmosphere workstations. At the BSMT conference the company will present one of its smallest anaerobic cabinets – the Whitley A25 Workstation. It might be small and compact but it has the same precise control of parameters as its larger workstations, ensuring the very best anaerobic conditions are maintained. Unlike when using anaerobic jars, users can check their plates regularly and perform tasks inside the workstation without risk to samples.

As well as being authorised to sell a range of COPAN automated laboratory solutions such as WASPLab, Radian and UniVerse, DWS supplies a wide range of COPAN LBM swabs, including eSwab, eNAT and SRK. They incorporate unique FLOQ tips in various sizes and are certified for rapid antigen testing, EIA, PCR and molecular-based assays, DFA and cytology testing, bacteriology and virology culture. Call at the DWS stand to have a look at some samples.

www.dwscientific.com



Don Whitley Scientific.

ELITech Group

ELITechGroup MDx is dedicated to serving the needs of clinical laboratories, providing a wide range of molecular diagnostic products including the fully automated sample-to-result systems ELITe InGenius and ELITe BeGenius, as well as a growing array of infectious disease assays. To provide maximum flexibility, the full reagent portfolio can be used on ELITechGroup MDx proprietary instruments, as well as on most open channel platforms. With ELITechGroup MDx, the ultimate goal is to offer a better customer experience through simplified workflows and unsurpassed product performance.

ELITechGroup MDx set an industry standard in real-time PCR with the



ELITech Group.

introduction of minor groove binder (MGB) probe technology, featured in its ELITe MGB products. MGB probe technology has since been the standard for simplifying probe architecture and improving sensitivity and accuracy of laboratory testing.

Over the years, the company has developed a broad menu of fully automated solutions including more than 45 CE-IVD molecular assays, instruments, and software, guaranteeing superior workflow design and enhanced performance. All its solutions are already on track to be IVDR compliant within the targets of the new directive. With ELITechGroup's customer service, you'll receive excellent service, rapid assistance, and expert consultants to tailor the best solutions to your needs.

www.elitechgroup.com

Genetic Signatures

Genetic Signatures is an established, global molecular-diagnostics company providing configurable syndromic testing for a broad range of infectious diseases. The company manufactures multiplex real-time PCR assays under the EasyScreen brand to support detection of over 100 clinically relevant pathogens. EasyScreen detection kits use patented, innovative 3base technology

which chemically converts the naturally occurring four-base genome to one of three bases. This improves PCR efficiency and reduces the genetic complexity of detecting pathogens. This is particularly beneficial for detecting pathogen subtypes and providing increased resistance to mutations or variants, as observed with SARS-CoV-2.

Genetic Signatures' EasyScreen detection kits are offered in conjunction with a suite of automated systems which enable an end-to-end streamlined workflow. Hospitals and diagnostic laboratories value the ability to detect a large number of pathogens in a single sample, whilst preserving throughput, providing timely and accurate diagnosis to improve patient management, and disease surveillance.

Genetic Signatures' EasyScreen products are accessible in over 30 countries, with direct representation in the United States, United Kingdom, Germany, and Australia, and distribution partners in Canada, South America, Africa and other European nations. Products are used for IVD use and research purposes.

www.geneticsignatures.com

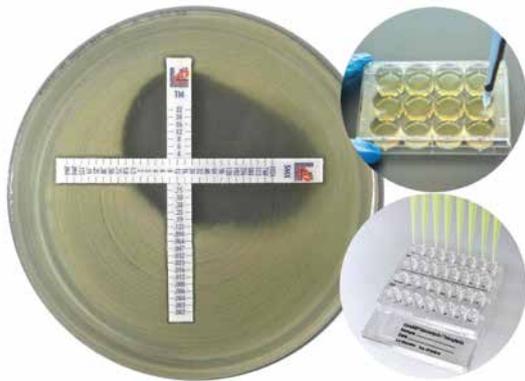
Launch Diagnostics

Launch Diagnostics has been established for over 30 years, and is a leading supplier of diagnostic solutions, providing comprehensive and innovative solutions for many pathology disciplines. Launch partners with world-leading manufacturers, supplying high-quality diagnostic reagents, instrumentation, and services to pathology departments across the public and private sector throughout the UK, Ireland (ACCUSAY Diagnostics) and Europe.

Proactively adapting to the ever-changing needs of users, Launch Diagnostics carefully develops its product portfolio with the introduction of the latest high-quality technology. Highlights include the fully automated AIX-1000 RPR system from Gold Standard Diagnostics, additional novel products in Liofilchem's AST range and a comprehensive range of

Genetic Signatures.





Launch Diagnostics.

PCR reagents and controls.

To discuss the new instruments and products, and how working with Launch can benefit your service and end users, visit the stand at the BSMT conference or see the website.

www.launchdiagnostics.com

Mast Group

Mast is pleased to be exhibiting once again at BSMT's 38th Annual Microbiology Conference.

Mast will be presenting its extensive range of AST and AMR products including the MAST CARBA PAcE – a colorimetric test that provides a rapid, simple, cost effective solution for carbapenemase detection using a novel chromogenic cephalosporin analogue. Additionally, the popular and expanding range of MASTDISCS Combi for the reliable detection of carbapenemase, ESBL and AmpC enzyme production in *Enterobacterales*.

Visitors to the Mast stand will have the opportunity to discuss the exciting new eLab, a mobile point-of-care system that simultaneously measures PCT, lactate and CRP, aiding sepsis diagnosis in just 12 minutes. The real-time monitoring of patients aids antibiotic stewardship, ensuring antibiotic treatment is necessary in the first instance, and supports adopting more targeted therapy, conserving the 'last resort' options for critically ill patients.

www.mastgrp.com



Mast Group.

MWE

Medical Wire, the UK's leading swab and transport-medium manufacturer, has invested in developing its capacity and range of molecular media for bacteria, viruses and parasites. Many laboratories are now seeing the benefits of using liquid medium over traditional gel swabs, which can be used for both culture and molecular. The Sigma range is compatible with many leading platforms, allowing the consistency of samples and reproducibility of results.

Sigma Transwab is ideal for sampling all forms of bacteria including Group A *Streptococcus*, whilst Fecal Transwab containing Cary Blair medium supports all enteric pathogens. Sigma Virocult which was used widely during the recent global pandemic is described as a very clean medium and ideal for virus sampling, or you can upgrade to Sigma VCM for virus, chlamydia, and mycoplasma investigations. Additionally, during the pandemic Sigma MM Molecular Medium, for the inactivation of all pathogens within 60 seconds, became a regular purchase for many NHS laboratories because of its safety aspect during transportation and sample processing. The company is now offering formats of Sigma GBS for Group B *Streptococcus* and Sigma SP for sputum sampling.

www.mwe.co.uk



MWE.

Pro-Lab Diagnostics

Pro-Lab Diagnostics is pleased to continue supporting the BSMT conference that for many has become an extremely important date in the diagnostics industry calendar.

In addition to the traditional products and plenty of penguins of course, the company will be showcasing the Q-linea ASTar – a fully automated system for rapid antimicrobial susceptibility testing (AST) from positive blood culture. The Q-linea ASTar cuts the diagnostic time for infectious diseases and delivers clinically actionable results in hours instead of days.

Pro-Lab also has an expansion to the automated / QC range of products, a new CLIA platform for gastrointestinal and



Pro-Lab Diagnostics.

respiratory infections, and additions to the Prolex range of kits for legionella and non-*E. coli* 0157 identification.

www.pro-lab.co.uk

Qiagen

Qiagen is a worldwide provider of molecular sample insights.

NeuMoDx sample-to-result PCR system can help ease the pressure for laboratories as a fully automated powerhouse with a swift and simple three-step workflow. True random access and unitised reagents allow you to use only what you need, when you need it, during critical times. No batching required.

QIAstat-Dx – set your clinical laboratory up for success with a streamlined syndromic test. The QIAstat-Dx Panels redefine ease-of-use with less than one minute hands-on time and a seamless sample-to-result workflow. Qiagen's innovative cartridge design includes all the reagents on board – ready to use.

High-throughput next-generation sequencing (NGS) technologies continue to provide a wealth of sequence information, resulting in significant advances in a wide range of research areas. To enhance your specific NGS-based research and help you achieve your goals, Qiagen provides dedicated NGS target enrichment, library preparation and single-cell solutions that eliminate bias and deliver uniform coverage.

QuantiFERON-TB Gold Plus offers accurate TB screening with only a single patient visit and is also unaffected by prior BCG-vaccination. Choosing QFT-Plus can reduce potential exposure to



Qiagen.

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COVID-19, while delivering rapid and trustworthy test results.

www.qiagen.com

R-Biopharm Rhône

R-Biopharm Rhône is a daughter company of R-Biopharm-AG and has celebrated over 30 years as a leading diagnostics developer and manufacturer.

Using the trademark names RIDA QUICK, RIDA SCREEN and RIDA GENE, the company offers a variety of product technologies. These include rapid tests for pathogen detection, ELISAs and PCR assays covering respiratory including SARS-CoV-2, enterics such as norovirus and gastroenterology products including therapeutic drug monitoring.

The Microbix range of Quality Assessment Products (QAPs) controls to complement your diagnostic assays is also available.

r-biopharm.com



R-Biopharm Rhône.

Randox Laboratories

With the release of a new version of ISO 15189 (2022) molecular microbiology laboratories are required to analyse their quality systems and procedures to ensure they meet these new standards.

ISO 15189 recommends the use of third-party controls, manufactured independently of any specific molecular workflow, giving laboratories impartial results they can be confident in. ISO 15189 advises laboratories that they should participate in an External quality assessment (EQA) scheme to compare their results with other laboratories



Randox Laboratories.

running the same tests.

Laboratories carrying out gap analysis for the new accreditation should consider these points when selecting IQC material and EQA programmes to ensure they meet all aspects of ISO 15189. Meeting this accreditation will provide clinicians with the confidence to make accurate diagnosis based on the laboratory results. To see Randox's full range of molecular controls visit the website.

www.randox.com/molecular-infectious-disease-controls/

Serosep

Serosep first launched a new test system called EntericBio in 2013, having identified an unmet need for a rapid and highly accurate test for the diagnosis of gastroenteritis (GI). EntericBio provides a complete and flexible modular menu for molecular enteric testing, detecting and identifying GI pathogens including bacteria, parasites and viruses within the same workflow – providing results within three hours. EntericBio has now gone on to disrupt the GI-testing market across both Ireland and the UK with in excess of one million tests being manufactured annually. EntericBio is widely regarded by laboratory professionals as the most innovative and forward-thinking solution for GI testing in the market today.

As well as manufacturing its own line of products, Serosep has also developed a number of key distribution partnerships over the last 25 years, including with: Euroimmun, Bio-Rad, Quantamatrix, Thermo Fisher Scientific and Dynex. The company has gone from strength to strength over the last number of years and now employs over 119 people across its Irish and UK sites.

www.serosep.com



Serosep.

Sysmex

Sysmex is excited to introduce the PA-100 AST System, offering antibiotic susceptibility testing at the point of care. The PA-100 AST System detects bacteriuria in urine sample within 15 minutes. Antimicrobial susceptibility testing is performed in a total analysis time of 30 to 45 minutes.



Sysmex.

Patient care is improved by clearly identifying positive bacteriuria cases and providing diagnostic information to select the right antibiotic treatment in each infectious episode.

Health professionals benefit from improving quality of diagnostic data available at the point of care, workflow and quality of the medical attention, While the health system benefits from optimal use of existing medicines and winning the fight against antimicrobial resistance.

www.sysmex.co.uk

Una Health

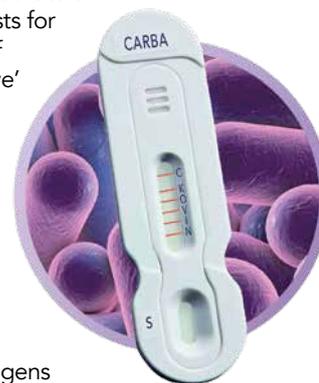
Una Health specialises in rapid microbiology and point-of-care diagnostics providing rapid and reliable solutions that make more efficient use of already stretched resources. Una Health is once again looking forward to attending the BSMT Conference and discussing its microbiology solutions with delegates.

Visit the stand to see lateral flow immunoassay tests for the rapid detection of

ESBLs and the 'big five' carbapenemases, NG Test CTX-M-Multi and NG Test Carba 5. Other products being showcased by Una Health includes the TECHLAB rapid tests for the detection of gastrointestinal pathogens including *Clostridioides difficile*, *Helicobacter pylori* and parasites.

Come and meet Una's friendly and experienced team and discuss how these diagnostic tests can help you to transform your workflow and make more efficient use of your resources.

unahealth.co.uk



Una Health.

For further details of the BSMT Annual Conference, visit the website.

www.BSMT.org.uk