Bionow Newsletter





Bionow News & Events

The latest Bionow News and upcoming Events



Bionow is Delighted to Welcome Three New Members

We look forward to working with:

Skin Life Analytics | Concept Life Sciences | Danforth Advisors

Our members are at the heart of what we do and by joining Bionow and working together we can achieve more. Bionow members have access to a fantastic range of benefits and services to assist with being globally competitive, delivering world class innovation and inspiring the next generation. Become part of our community!

Join Us



Partner Snapshot: Air Products

Air Products is a Bionow Preferred Partner for liquid nitrogen, argon, CO2 and cryogenic storage equipment.

Bionow members can save up to 40% compared to list price!

Air Products is the global leader in the supply of liquefied natural gas process technology and equipment. They develop, engineer, build, own and operate some of the world's largest industrial gas projects, including gasification projects that sustainably convert abundant natural resources into syngas for the production of high-value power, fuels and chemicals.

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Meet the Member: Hart Biologicals

Hart Biologicals is engaged in the research, development, manufacture, and marketing of a range of "in-vitro" diagnostic products for use in the detection, prevention, and monitoring of a number of medical conditions related to haemostasis and platelet function.

Their products are based upon whole blood or blood plasma clotting technology or whole blood and platelet rich plasma aggregation and platelet function test principles - technologies that are available in almost all pathology laboratories worldwide. Their contract services include Product Development, Regulatory Submission, Manufacturing, Customer Service, Sales, Marketing, and Global Product Distribution.

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BioFocus 2023: A day of innovation

The Catalyst at Newcastle Helix saw a bumper turnout with 166 delegates, speakers and panelists, plus 12 exhibitors, all discussing, sharing and learning about the latest technologies, innovations, key sector initiatives, and funding opportunities.



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Business Pitching and Biotech & Beers Citylabs 1.0, Manchester

Tuesday 4th July 2023

Bionow and Bruntwood SciTech will be co-hosting a Business Pitching and Biotech & Beers networking opportunities event for companies operating in the life science and biomedical sector. The event is not only a great opportunity to present to the life science and biomedical community but also gives companies a unique chance to hear about the latest technologies and innovations available from some of the leading companies in the North.

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Tech Tuesday The Lost & Found Leeds Club

Tuesday 18th July 2023





You're invited to Mills & Reeves' next Tech Tuesday, where they'll be partnering with Bionow. Tech Tuesday is bimonthly casual networking and drinks event open to

anyone working across the Yorkshire Tech ecosystem.

Alex Newman and the rest of the Mills & Reeve team look forward to welcoming you for a drink.

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Cybersecurity for Life Sciences: Managing Risks & Busting Myths Online

Wednesday 13th September 2023

Learn how to protect your company from the latest cyber threats. In this webinar, Bionow partner Mitigo Cybersecurity will bring to life the attacks that are hitting the biomedical and life sciences sector and give a view of what it takes to become protected.

Cybercrime is a major threat to all organisations regardless of size. In partnership with Mitigo, we are keen to support companies to build resilience against cyber-attacks. This **FREE** 1-hour webinar will provide some key takeaways to help your company manage risk and stay safe.

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Bio Cap 2023 CONFERENCE

BioCap 2023 Alderley Park Conference Centre

Thursday 28th September 2023

Whether you're looking to invest in the next cuttingedge life sciences innovation or seeking funding and investment opportunities for your business, BioCap is not to be missed!

BioCap features three great opportunities for potential investors and investees to interact:

- Digital Pitching Competition: Shortlisted applicants "pitch" to an online panel of investors
- Investor Dinner: Build valuable connections ahead of the conference.

 BioCap Conference: A full day of networking, panel discussions, keynotes and 1-2-1s

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Maximise your membership with Bionow

We are conscious that laboratory costs are a huge expense for so many companies in the life science sector.

We can save you **up to 40%** with the Bionow member discount via the Purchasing Scheme on **thousands of products** with companies including Fisher Scientific, Air Products and Air Liquide.

Using the scheme can make a big difference to your bottom line and getting set is easy, just speak to your membership manager. You can even provide some of your most commonly purchased products and your membership manager can compare the savings for you.

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If you would like to be involved with Bionow Events we would love to hear from you.

View Bionow Events



News

Keep up to date with Bionow Member, Partner and Sponsor News



Host a BBSRC DTP intern

The University of Manchester is recruiting companies from ANY SECTOR to take on professional internship placement (PIP) students from their BBSRC Doctoral Training Programme for 3 months from September 2023.

The programme is FREE to those who take part and enables participants to establish employment and collaborative links with a world-class academic institution.

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Manchester Met bioscience degree apprentice supports international apprenticeship development

We were pleased to welcome back Dr James Mackay from Otago Polytechnic to Manchester Metropolitan University. James has been leading on the development and delivery of degree apprenticeships using Manchester Met's delivery model in New Zealand.

During his visit, some of our inspiring apprentices including, Emily Butterworth, Laboratory Scientist (Bioscience) Degree Apprentice from AstraZeneca, were given the opportunity to share their own apprenticeship experiences and learn about James' journey of launching degree apprenticeships in New Zealand.

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CPI Enterprises to help fund innovative medical device for brain tumours

This is CPI Enterprises' ninth investment and fourth in the last 12 months.

CPI's HealthTech team is working with QV Bioelectronics on its technology to ensure the advanced materials can safely deliver the best treatment possible, without impacting patient quality of life.

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Tiro's new Data Essentials apprenticeship programme for upskills (including Python and/or R training)

Exciting News! Tiro is thrilled to announce the launch of our new Data Essentials apprenticeship program in Q4 2023!

This programme is not just suitable for people working in the lab, it can be utilised by anyone who has to deal with data in any role. You, as an employer, may decide to employ dedicated staff to this function or to include these skills within a variety of job roles as an upskill (great opportunity to utilise a Levy).

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AmerisourceBergen World Courier

Live webinar: Strengthening partnerships: Considerations for setting up robust specialty commercial drug supply chains

4pm CEST on 13th July 2023

Choosing the right logistics provider and building a strong partnership will be also discussed, based on observations and backed up with data to support the process of selecting a logistics provider that is the right fit for your company.

We will cover the importance of setting up a robust supply chain for business continuity, along with best practices for ensuring a reliable and efficient supply chain. Whether you are looking to streamline your supply chain operations or just want to optimise your specialty logistics and distribution processes, this webinar, and checklist handout is the perfect resource for you.

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Time is running out to secure the best early talent...

Tiro is a leading training provider for science and technology apprenticeships. We've been helping ingenious apprentices join ambitious businesses since 2005. We have a range of programmes to support growth within life science companies, and we are offering a one-time offer of free recruitment for Bionow Members!



Yourgene Health presents data demonstrating successful fetal fraction enrichment in NIPT workflows following prolonged blood storage in EDTA tubes

Yourgene Health has presented data demonstrating that prolonged storage of blood in EDTA tubes is compatible with non-invasive prenatal testing (NIPT) when using size selection to enrich the fetal fraction. Scalable and precise DNA size selection following EDTA tube usage offers a cost-efficient alternative to the use of more expensive blood collection tubes (BCTs) and improves next-generation sequencing (NGS) workflows, reducing the risk of failed screening tests for expectant mothers.

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Source Genomics expands rapid Sanger sequencing services to the North of the UK

Source Genomics, a part of the Source BioScience Group, has announced their genomic laboratory expansion into the North of the UK for increased capacity of its Sanger sequencing services leading to faster turnaround times for data delivery.

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Join us for a Source Genomics X Olink Proteomics Masterclass on Tuesday 4th July at the Babraham Research Campus!

Looking to delve into protein biomarker studies?

Join us for a Source Genomics X Olink Proteomics Masterclass on Tuesday 4th July at the Babraham Research Campus!

Featuring scientific leaders, case studies and a delicious lunch with refreshments throughout the day.



Project helps to improve forensic shoeprint scanning accuracy

Research involving the University of Huddersfield is helping to improve accuracy in the field of forensic comparison.

The University's Dr Sarah Reel led on an assessment of a system called TreadMatch for Yorkshire and the Humber Regional Scientific Support Services (YatH RSSS), based in nearby Wakefield. Currently TreadMatch takes digital scans from the footwear of persons detained in custody. The National Footwear Database (NFD) auto codes the scans and provides intelligence relating to crimes in the area where similar footwear patterns have been recovered.

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Spring budget changes to R&D - impact on the life sciences sector

Before going into detail on the research and development (R&D) tax relief changes announced, it is helpful to recap on the background.

There are currently two schemes of relief:

- designed for small and medium-sized enterprises (SMEs) consisting of an additional tax deduction combined with a payable credit for loss-makers; and
- designed for larger companies and consisting of an R&D expenditure credit (RDEC) – recognised for accounting purposes as an item of profit before tax.

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Engineering firm takes steps to reduce its environmental footprint

A leading process engineering firm in the North East is taking steps to reduce its environmental footprint by launching two new green initiatives. Northern Engineering Solutions has recently introduced a recycling scheme at its headquarters in North Shields, resulting in the company cutting its general waste by more than 50% in the first month. An in-house composting programme is also currently being trialled. Both initiatives are spearheaded by Lucy Davey - an Environmental Science graduate from Northumbria University.

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Unique molecule life cycle platform released: Torx® 2.0

Torx ® Software announces the release of Torx 2.0, extending the platform's scientific reach and capabilities to deliver unrivalled seamless integration across the drug discovery Design-Make-Test-Analyze (DMTA) cycle.

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National Diabetes Week 2023: Translating world-leading research into every-day life

The University of Sunderland is now an established global player in type 1 diabetes (T1D) research leading on several international studies designed to improve the quality of life for those living with the disease.

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Invitation to help improve the experience of the menopause for working women in your organisation

Lancaster University's MENO-kit Project is a 3-year academic research project funded by the charity Wellbeing of Women. It has been developed because in the UK, there are approximately 5.1 million women between the ages of 45 and 59 who are actively working. Menopause typically occurs around the age of 51, which means a significant number of women in the UK workforce may be experiencing menopause and its transitional phase while

still employed.

For more information, please contact Glyn Jones at r.g.jones@lancaster.ac.uk with your details.

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BiVictriX Therapeutics has selected a drug candidate from its BVX001 programme for clinical trials

In a statement, Tiffany Thorn, CEO of BiVictriX, said: "This strong in vivo efficacy data we are seeing from our first clinical candidate provides clear validation for our first-in-class Bi-Cygni therapeutics and their potential to provide much-needed further treatment options for patients with acute myeloid leukaemia, one of the most aggressive forms of cancer."

She added that researchers will continue to progress BVX001 through further preclinical studies that help it gain regulatory approval to begin human trials.

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Biocair partners with TrakCel to improve visibility in the supply chain

Chris Good, Director of Cell & Gene Therapy Logistics at Biocair, comments "Biocair has always been customer focused, but this is even more important in the cell and gene sector. We want to give our customers full visibility and integration within the complex cell and gene therapy supply chain, which is why partnering with TrakCel is essential to providing health care professionals and patients peace of mind that their life-changing medicines will reach them in a timely and safe manner."

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AmerisourceBergen World Courier

World Courier enhances real-time monitoring capabilities, expands global footprint

AmerisourceBergen's World Courier, a global specialty logistics provider, announced today it will deploy a real-time location monitoring (RTLM) solution on all of its multi-use packages, enabling increased visibility into the precise location of shipments in transit globally. The technology, which will transmit data to operations teams across World Courier's global network, will enhance the team's ability to proactively monitor shipments, anticipate potential risks and intervene, if needed, to ensure the secure and timely distribution of products.

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UK Biobank will move to Manchester Science Park following £127.6m funding from UKRI

UK Biobank, the world's most significant source of data and biological samples for health research, is set to receive £127.6m to fund a move to a larger, faster, and more efficient, purpose-built facility at Bruntwood SciTech's Manchester Science Park. This follows an application by the Medical Research Council to the UK Research and Innovation (UKRI) Infrastructure Fund[1] to support UK Biobank's development.

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The University of Edinburgh's Venture Builder Incubator in partnership with Cancer Research Horizons

The University of Edinburgh's Venture Builder Incubator, run in partnership with Cancer Research Horizons, will help you test your data-driven idea, give you access to a share of over £65k and support you in the creation of a startup.

The curated programme includes interactive workshops and events, one-to-one support and links to investors to provide PhDs, postgrads, early career researchers and academic staff with the skills and knowledge to solve real world challenges and maximise the impact of their research.



Click here for the latest Member News

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Information

Product and service information, blogs, funding rounds, reports and more from our Members and the wider life science sector



Always running out of stock?

NELS offer a Vendor-Managed Inventory which is where a supplier is responsible for optimising the inventory held on site. This ensures your defined stock levels are maintained and critical stock items are backed up with stock levels at our warehouse in County Durham.

Over time, this saves money and time itself as there are fewer "emergency" deliveries.

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Navigating unprecedented changes in the biotechnology and biochemistry sectors

At BIO 2023, I spoke to the Life Sciences Knowledge Hub about how Cresset are navigating the unprecedented changes in the biotechnology and biochemistry sectors, specifically:

- · Rising trends in need for CADD software and contract research
- Making use of free energy methods which can accurately predict the efficacy of compounds
- Applying AI approaches that can hugely speed up computations in key areas and reduce timelines
- Adopting quantum computing to radically alter computation and to simulate systems that are much closer to reality

To find out more, follow the link below.

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Latest white paper: Ethical and Trustworthy Artificial Intelligence

In 2021 the European Commission released the draft AI Act (AIA) (EC, Artificial Intelligence Act, 2021). Following the initial release, the AIA text has changed and developed as it has made its way through the EU legislative process. In Nov 2022, the Commission adopted its position to take into negotiations with the European Parliament (Council, Nov 2022). The AIA is expected to become a regulation early in 2024, and is expected to come into application in 2027, according to the latest text, where the transition period is defined as 3 years.

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Early Stage Design in Innovation Guide

The UK is in the premier league of creativity and design boasting a multidisciplinary sector, from strategic design to brand design. According to a Department for Business, Innovation and Skills report, every £1 invested in design provides an average return on investment of £25. There is a huge opportunity for UK companies to increase their use of design in early stage innovation to deliver products and services with increased 'market pull' and improved social, economic and environmental impact.

The Early Stage Design in Innovation Guide helps businesses explore how design can be used in innovation and what is needed to create the best environment for design to deliver high value.

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15-plex assays digital PCR

There is a growing need in molecular biology to interrogate samples for higher number of biomarkers, beyond the 2 to 5 biomarkers typically addressable with standard PCR technologies. Here, we demonstrate a novel approach to increase the level of multiplexing in digital PCR up to 15-plex by detecting each target with 2 distinct fluorophores with a 6-color digital PCR system, a method called digital PCR by color combination. We provide a statistical framework to interpret digital PCR data by color combination, predicting that high-plexed assays by color combination can, in theory, have the same precision and sensitivity as corresponding single-plex assays.

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Addressing the UK Skill Shortages within the Life Science Sector

After attending a number of Life Science conferences and events over the last 6 months and speaking with Scientific Leaders within the industry, there are clearly a number of challenges and risks to companies when securing new talent!

Attracting new talent to their teams is essential to their continuation of growth and expansion; this is only going to become more apparent as the Life Science industry is expected to remain in a growth period across the coming decade. This, coupled with record investment across the UK's Pharma and Biotech industries is certainly an area that needs to be addressed.

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Can it be recycled?

Are you using chemicals in your lab? What are you doing with the bottles once they are finished? NELS have the solution for you!

The environment is a key focal point for us as a company and we take great pride in reducing our overall impact and enjoy having the opportunity to help our customers to do the same.

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Pd-m Sustainability: Start the journey

At Pd-m International, we are thrilled to share some exciting news and updates with you in our mission to drive sustainability and help organizations reduce their carbon footprint.

In response to the growing need for Carbon Reduction Plans (CRPs) and ESG reporting in alignment with the NHS mandate, we have expanded our offering to now include the crucial carbon accounting piece. We understand the immediate pressure you face to meet these requirements, and we are here to support you every step of the way.

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What are the key business risks in healthcare and life sciences?

The need for healthcare and life sciences organisations to enhance their risk management arrangements is more essential than ever. Combined pressures in a post-

pandemic environment, including increased cyber-attacks, the legislative and operational complexities following Brexit and changing regulatory frameworks, have seen the role of risk management change in recent years.

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Definition of AI (Art.3)

The definition of AI is important as it will dictate the products that fall under the scope of AIA, as well as filtering out products using the term AI incorrectly. A global concern on the definition of AI has been raised, leading to a broad range of definitions in official documents. Some of which are presented in Table 1 - Definitions (TC260, 2021) that make use of the term "intelligence". These are ambiguous however, as there is no globally accepted definition of intelligence (Shane Legg, 2007) (Wang, 2019).

Read More



Walking Amongst Cobots in the Age of Industry 5.0

The pharmaceutical industry is at the cusp of a transformative era, driven by Industry 5.0 and the synergy between humans and robots. Cobots, collaborative robots designed to work side by side with humans, offer unparalleled potential to enhance operational efficiency, increase productivity, and elevate the quality of pharmaceutical manufacturing processes.

Contact 01642 222232 or email c-knott@its-ltd.co.uk for further information.

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Talking about Al/ChatGPT in HR and recruitment

I'm going to focus this onto ChatGPT and Artificial Intelligence and how it's going to impact on recruitment and HR with details relevant if you are reading this from the hiring side, or as a candidate. I'm sure this will interest members, as I recently heard on the High Performance Podcast... Every company is a recruitment company!

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Global mobility and talent retention in UK life sciences

The UK life sciences sector historically gained its talent globally, with large-scale international hiring, permanent moves and commuters being commonplace. However, Brexit undid what was an almost seamless transfer process within Europe, before Covid saw the world transfer to remote working almost overnight.

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New Innovate UK funding opportunity for UK registered businesses and collaborative partners

UK registered organisations can apply for a share of up to £5 million for manufacturing innovation for nucleic acid medicines. This funding is from Innovate UK.

Competition closes: 11:00am on Wednesday 19 July 2023



EPSRC Health Technologies Strategy Launch Events

The EPSRC healthcare technologies strategy identifies challenges that can be addressed through research in engineering and physical sciences.

The challenges are:

- · improving population health and prevention
- · transforming early prediction and diagnosis
- · discovering and accelerating the development of new interventions

The events will take place across the UK including Edinburgh (7th September) and Belfast (September/October tbc).

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Excellent Protective Gloves for Tough Experiments

Tear-resistant gloves with a 'touch feeling formula' that protect against dangerous chemicals and micro-organisms, cleaning agents, and disinfectants. Suitable for general lab, pharmaceutical, professional cleaning, and food use, as well as for users with sensitive skin or a diagnosed latex allergy.

Key Features:

- · Latex free
- Disposable
- Tear resistant
- · Ambidextrous with roll edge
- · Indigo blue
- · Single use

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All the latest from the life science sector

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Job Posting Free of Charge to Bionow Members



Members of Bionow can post their current job vacancies directly to the Bionow website free of charge.

https://bionow.co.uk/jobs
For further information contact the
Bionow team.

Bionow Preferred Recruitment Provider



A leading science, clinical and engineering resource consultancy with a difference.

Contact the SRG team:

Behruz Sheikh (North West & Yorkshire)

Matthew Garner (Northern Region)



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BOS Basel 2023



4th - 20th July 2023 Congress Center Basel

Biotech Outsourcing Strategies events bring together stakeholders in R&D outsourcing to share experience, build existing outsourcing partnerships and forge new buyer/supplier business relationships. BOS is an event where business gets done and where you can be confident of high quality interactions with potential business partners.

BOS Basel 2023 scope is primarily development stage CMC outsourcing for both Small Molecules and Biologics and also covering Novel Therapeutic Entities.

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BioFutures Symposium



4th - 7th July 2023 Northumbria University, Newcastle upon Tyne

Through the BioFutures Symposium 2023, we would like to connect educators, researchers, design practitioners, industrialists and students from biology, engineering, environmental sciences, architecture, fashion, innovation design, computer sciences and social sciences, to showcase and discuss the potential for interdisciplinary collaboration.

The symposium will have sections covering the following areas: wearable biosensors, biological fabrication of smart materials / novel biomaterials, waste valorisation, biological interface materials,



ON Helix



Thursday 6th July 2023
Babraham Research Campus,
Cambridge

Theme: New Horizon for Bio Innovation

This one-day conference will address key bio innovation trends, from developments in life science and technology research to their translation into new diagnostics, prevention tools or treatments. Don't miss this opportunity to connect with the One Nucleus network to explore New Horizons for Bio Innovation.

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Lancaster University Biosciences Networking Symposium



Thursday 13th July 2023

Division of Biomedical & Life
Sciences, Furness Building, Lancaster

Al-designed life, and design education for BioFuture, concluding with industry perspectives on BioFutures.

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Building resilience in the life sciences sector: Navigating an ever-changing landscape



Wednesday 12th July 2023 Granary Wharf House, Leeds

Clarion, Mazars and Woodley BioReg are bringing together representatives from the sector to support building a resilient future. The speakers will provide an overview of the current landscape and examples of obstacles faced by life sciences businesses as well as the help available from West Yorkshire Combined Authority.

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Building Resilience against Cyber Threats



Thursday 13th July 2023
The Mere Golf and Spa Hotel,
Knutsford

We are thrilled to announce our upcoming event focused on Building resilience against cyber threats in highly regulated

University

You are cordially invited to LBNS2023! Bringing together our Biosciences-related research communities to showcase the exciting research being undertaken across separate departments at Lancaster University and to create opportunities for networking.

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Funding Future Potential: Making finance markets accessible for SMEs



Wednesday 19th July 2023 Devonshire Building, Newcastle University

Discover how British Business Bank is providing financial support to early-stage spin-outs and offering programmes to help scale up early-stage businesses. Hear from British Business Banks' UK Network for the North East England & Tees Valley's Senior Manager, Shaun Fooy about how they are driving sustainability, innovation and prosperity across the UK's SME network and how you could take your innovative idea further, whether you have already spunout a company, or are the idea exploration stage.

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industries. As the pharmaceutical industry and otehr regulated industries continue to evolve and embrace digital transformation. the importance cybersecurity cannot be overstated. Join us for an engaging and informative session where industry experts will share their insights, strategies, and experiences safeguarding critical operations, protecting sensitive data, and ensuring regulatory compliance.

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Advanced Therapies Seminar: Dr Cristiano Scottà, King's College London



Wednesday 19th July 2023 Online

The Newcastle Health Innovation Partnership (NHIP) Advanced Therapies Satellite is pleased to launch a series of seminars to highlight key topics and advances in translational and partnership working in Advanced Therapies research and delivery.

We will hear updates from colleagues about work in their area of specialty and encourage discussion and engagement around important local and national issues in this exciting and cutting-edge space.

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Biotech Investment Opportunities in the Northwest 2023



Tuesday 25th July 2023 **Bright Building, Manchester Science Park**

Our event will be an exploration of the most significant investment and support opportunities available to healthcare and biotech start-ups in our robust northwest ecosystem. Through engaging talks and insightful panel discussions, we aim to foster a lively exchange of ideas among all attendees.

Whether you're a founder, investor, or just an enthusiast in the biotech and healthcare sectors, this event promises to provide invaluable insights and connections.

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