

fascination



UK Research
and Innovation

Welcome to Fascination, a behind the scenes look at our labs, facilities and funded research and the breakthroughs they bring.

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New compound that kills antibiotic-resistant superbugs

Antimicrobial resistance is already responsible for 25,000 deaths in the EU each year, it's estimated by 2050 more than 10 million people could die every year

due to antibiotic-resistant infections. UK researchers have discovered a new compound which visualises and kills antibiotic resistant superbugs.

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HealthTec Cluster transforming NW

A HealthTec Cluster launched at Sci-Tech Daresbury will grow successful health technology businesses, develop world firsts in medical science and deliver life-changing health innovations both in the North West and nationally.

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3D cell technology can mimic any organ

At Daresbury Laboratory, start-up company Revivocell has launched a tool that will enable researchers to mimic the conditions for any organ in the human body. This new technology will advance our understanding of disease and speed up the safety testing process for new drugs.



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Bringing the Universe into focus

It's the cool tech that 'fixes' the blurring caused by the Earth's atmosphere, and lets BIG telescopes on land see into space better. Dr Noah Schwartz, STFC's adaptive optics (AO) expert, based at the UK Astronomy Technology Centre, shares his eight coolest AO astrofacts.

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Learning the skills for the future

Namhla Mabombo is a graduate trainee from South Africa, working with the Square Kilometre Array (SKA) – which will be the world's biggest radio telescope. She came to STFC's UK Astronomy Technology Centre to learn how to build a fully operational observatory in Kenya.



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Igniting a passion for science

A ground-breaking new initiative aims to spark a passion for science in communities across the UK by inviting them to develop tailor-made activities in partnership with their local science centres.

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Future leader in laser science

The Central Laser Facility's Dr Paul Donaldson has been awarded one of the first UKRI Future Leaders Fellowships, giving him the time and space to be creative with his batteries and catalyst research, which could lead to greener transport in the future.



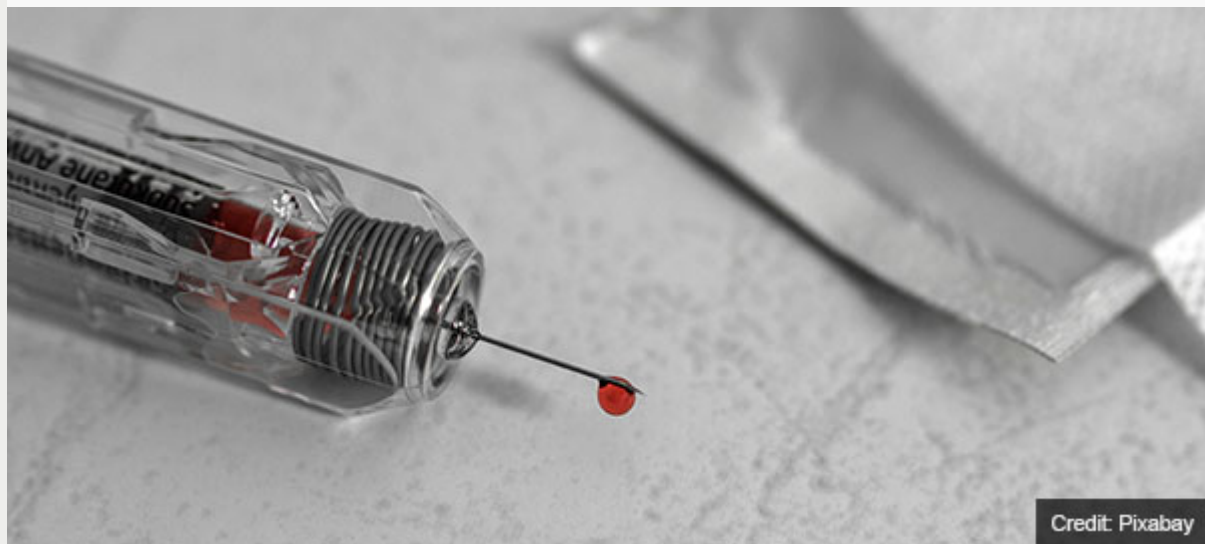
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Cooling off at the Cryogenics Cluster Day

Helium is crucial for cooling in many sectors, from particle accelerators to fridges, but it is also a limited resource. The Cryogenics Cluster Day at RAL was an opportunity to hear about recovering helium to be used again at ISIS Neutron and Muon Source.

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Detecting sepsis from a breath using space technology

RAL Space's Laser Spectroscopy Group has developed a laser instrument, originally designed for Mars, which is currently being used in a pilot clinical study at

King's College London for its effectiveness at detecting sepsis in a patient's exhaled breath. It has the potential to transform the diagnosis of sepsis throughout the UK.

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STFC Social Media



Find out how the @HartreeCentre has helped #startup @eXgenceTech to take #AI-enabled tech to market, via Bridging for Innovators [Read more here.](#)



Our lasers can be used to manipulate structures inside plant cells so that we can understand how plants transport nutrients during growth [Read more here.](#)



STFC is looking to recruit members to the Technology and Accelerator Board. There are up to twelve vacancies [Read more here.](#)



Software engineers from @isisneutronmuon, @essneutron and the Jülich Centre for Research with Neutrons are working together [Read more here.](#)

