






INTEGRATE AMR **Project Ideas and Networking Meeting**





Who's Who


COMBINING OUR
AMR EXPERTISE
AND
EPS STRENGTHS
TO DEVELOP
WARWICK'S
POTENTIAL TO BE
A CENTRE OF
WORLD-LEADING
RESEARCH IN AMR

Engineering









	<u>Dr James Covington</u>	Novel chemical sensors, sensing materials and micro-systems
	<u>Professor Michael Chappell</u>	Modelling and analysis of biomedical, pharmacokinetic and biological processes
	<u>Dr Neil Evans</u>	Systems modelling, analysis and control of drug kinetic, epidemiological and biomedical processes
	<u>Professor Peter J. Thomas</u>	Experimental fluid dynamics, with emphasis on: Rotating Flows, Two-Phase Flows, Granular Flows, Boundary-Layer Transition, Fluid-Flow Compliant-Wall Interactions
	<u>Dr Weisi Guo</u>	The intersection between mobile big data, signal processing, and network theory

Physics



	<u>Dr Vasily Kantsler</u>	Dynamics of fluid vesicles and semi-flexible biopolymers in external flows, mixing in suspensions of green algae, motility and surface interactions of swimming cells
	<u>Professor Rudolf Roemer</u>	Solid state physics, theoretical solid state physics, computational physics, disordered materials, quantum Hall effect, transport problems in quantum systems, meso- and nanoscopic physics, exact solutions, mathematical physics, biological physics
	<u>Dr Marco Polin</u>	Biophysics of microorganisms, how they interact with the physical world and with each other, from the workings of individual organelles to the behaviour of populations
	<u>Professor Matthew Turner</u>	Biological and Soft Matter Physics

	<u>Professor Steven Brown</u>	Solid-State NMR, structural and dynamic investigations, particularly hydrogen bonding and supramolecular systems
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Medicine

	<u>Dr Meera Unnikrishnan</u>	Mechanisms underlying persistent infections
	<u>Dr Nick Waterfield</u>	Insect infection models, fundamental microbiology, bioinformatics, functional genomics, natural and synthetic product antibiotics and bio(nano)technology
	<u>Dr Esther Robinson</u>	Bacteriology; antibiotic resistance; mobile genetic elements; transcriptomics; next-generation sequencing; <i>Haemophilus influenzae</i> ; phylogenetics
	<u>Professor Mark Pallen</u>	Bioinformatics and laboratory-based molecular bacteriology
	<u>Professor Matthew Gibson</u> (Joint Chemistry)	Organic, polymer and carbohydrate chemistry to address global healthcare issues
	<u>Professor Andrew McAinsh</u>	Understanding the mechanisms by which kinetochores power chromosome segregation and how the mitotic spindle is self-assembled and positioned during mitosis in human cells
	<u>Professor Jonathan Millar</u>	Fundamental mechanisms that regulate the cell division cycle
	<u>Dr Chrystala Constantinidou</u>	Clinical epidemiological studies within a hospital setting and elucidating bacterial pathogenesis using high-throughput sequencing technologies


WBS

	<u>Dr Kelly Schmidtke</u>	Understanding the context and consequences of behaviour. Improving communication of quantitative information (e.g., graphs) to hospital decision makers
	<u>Umar Taj</u>	Doctoral Researcher in the Behavioural Science Group. Behavioural insights solutions, barriers to behaviour change




WMG

	<u>Professor Tony McNally</u>	Polymer Science, Processing and Nanocomposites, Biomimetics
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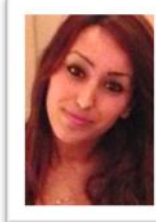

Research & Impact Services

	<u>Katie Irgin</u>	Impact Officer for the SLS, Systems Biology Centre, WMS, and Psychology. Interested in accelerating the outcomes of research, and specifically improving the wider impact of research.
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Mathematics



	<u>Professor Matt Keeling</u> (Joint Life Sciences)	Modelling of infectious diseases in humans and animals. Optimal targeting; Spatial spread and Networks; Stochasticity and persistence of infection
	<u>Dr Deirdre Hollingsworth</u> (Joint Life Sciences)	Transmission dynamics of HIV stages. Dynamics and control of malaria. Prediction and optimal control of helminth infections
	<u>Hajnal Farkas</u>	Project manager, Neglected Tropical Diseases Modelling Consortium

NIHR Clinical Research Network/UHB/UHCW









	<u>Dr Miruna David</u>	Consultant Microbiologist at University Hospitals Birmingham. Special interests in antimicrobial prescribing and infections in immunocompromised. As the clinical service lead for laboratory microbiology, her focus is primarily on continually developing a responsive modern microbiology laboratory service
	<u>Susie Harrison</u>	Division 6 Regional Research Delivery Manager. Member of various national groups advising on national policy and processes. These include the R&D Forum: Primary Care Working Group, the national NIHR CSP Steering Group, and was a Department of Health "Champion for Research Support". She is still a member of the R&D Forum: Research Management Working Group
	<u>Priya Bagga</u>	Division 6 Research Portfolio Facilitator, main focus is to liaise with research active/interested investigators to develop the Infectious Diseases and Microbiology portfolio and to build capacity and capability to bring in new commercial and non-commercial research into the West Midlands
	<u>Carolyn Dawson</u>	Researcher at UHCW NHS Trust and Warwick University exploring Hand Hygiene and wider Infection Prevention challenges.
	<u>Satyajit Das</u>	Medical Lead, Consultant Physician, Coventry & Warwickshire Partnership Visiting Professor of Sexual Health & HIV Medicine, Coventry University Speciality Lead for Infectious Disease & Microbiology, West Midlands. Clinical research on effect of disease and treatment of HIV infection through different clinical trial set up collaborating with different National and International teams.
	<u>Bernadette Baretto</u>	Antibiotic pharmacist
	<u>Kate Prevc</u>	Modern Matron Infection Prevention and Control










Chemistry

	<u>Professor Peter Scott</u>	Metallo-organic chemistry, particularly the design of self-assembling chiral systems; their applications as medicines for challenging diseases
	<u>Professor Peter Sadler</u>	Chemistry of metals in medicine (bioinorganic chemistry, inorganic chemical biology and medicine)

	<u>Professor Matthew Gibson</u> (Joint Medicine)	Organic, polymer and carbohydrate chemistry to address global healthcare issues
	<u>Professor Alison Rodger</u>	Biomacromolecule structure and function including DNA, membrane proteins and fibrous proteins including application to bacterial cell division
	<u>Professor Greg Challis</u>	Natural products chemistry and biology
	<u>Jozef Lewandowski</u>	Developing and applications of NMR (primarily but not exclusively solid state) methodology for studying structure and dynamics of proteins and nucleic acids
	<u>Professor Tim Bugg</u>	Enzymes involved in bacterial cell wall peptidoglycan biosynthesis, as targets for the development of novel antibacterial agents
	<u>Dr Andrew Marsh</u>	Combining organic chemistry and molecular design in the synthesis of functional molecules
	<u>Professor Martin Wills</u>	Synthetic chemistry and asymmetric catalysis

Life Sciences

	<u>Dr Corinne Smith</u>	Structure and mechanism of clathrin coated vesicle formation during clathrin-mediated endocytosis using a range of structural and biophysical techniques
	<u>Dr David Roper</u>	Structural biology, principally X-ray structural determination, in combination with molecular biology and biochemical approaches, to investigate the molecular basis of microbial physiology
	<u>Dr Elizabeth Fullam</u>	<i>Mycobacterium tuberculosis</i> sugar metabolism; biochemistry, structural biology, chemistry and microbiology techniques
	<u>Professor Christopher Dowson</u>	Antibiotic resistance, bacterial pathogenicity and population genetics
	<u>Professor Matt Keeling</u> (Joint Mathematics)	Modelling of infectious diseases in humans and animals. Optimal targeting; Spatial spread and Networks; Stochasticity and persistence of infection
	<u>Dr Deirdre Hollingsworth</u> (Joint Mathematics)	Transmission dynamics of HIV stages. Dynamics and control of malaria. Prediction and optimal control of helminth infections
	<u>Professor Alfonso Jaramillo</u>	Engineering organism-specific virus-like antibiotics. Engineering synthetic RNA circuits in living cells
	<u>Dr Freya Harrison</u>	a) Bacterial evolution, ecology & AMR in chronic infections, especially in cystic fibrosis; b) developing realistic lab models of chronic infection; c) antimicrobial discovery using pre-modern European medical texts

	<u>Professor Elizabeth Wellington</u>	Ecological roles for specific bacterial activities including antibiotic production, resistance and exoenzyme production
	<u>Dr Antonia Sagona</u>	Mechanisms of bacterial infection and phage therapy inside the mammalian cell environment
	<u>Dr Christophe Corre</u> (Joint Chemistry)	Bacterial signalling: new chemical keys to unlock the production of novel microbial antibiotics
	<u>Tania Page</u>	Communications Officer, School of Life Sciences
	<u>Jessica Gaudy</u>	Lameness control protocol for sheep flocks
	<u>Dr Teja Sirec</u>	Multicellularity. Bacterial differentiation. Bacteria-host interactions
	<u>Dr Rika Nair</u>	Project Manager, INTEGRATE AMR Contact for Warwick Antimicrobial Interdisciplinary Centre
	<u>Dr Yin Chen</u>	Microbial diversity, genetics and biochemistry of microorganisms involved in methylated amine and quaternary amine metabolism
	<u>Dr Munehiro Asally</u>	Bacterial community behaviour, biofilms