

Please help us to keep the R+D Bulletin topical and useful by sending us your news, events, publications and comments – the Bulletin is compiled by Communications Officer [Claire Mooney](#), who can be contacted on 0161 206 5110.

21 December
2016
V4 E12

Salford R+D oversees research and development on behalf of [Salford Royal NHS Foundation Trust](#).



@SalfordRD



News

Merry Christmas and a Happy New Year

As we head into the holiday period, we would like to wish you all a very merry Christmas, say thank you for all your hard work during 2016 and wish you all the best for 2017.

Many thanks also to everyone who contributed to last week's research roadshow at Eccles Shopping Centre, our Christmas Jumper Day, festive quiz, bake sale and raffle.

The roadshow offered shoppers another chance to find out more about some of the clinical trials going on at Salford Royal as well as to have some simple health checks. Those interested in taking part in research could sign up to our Citizen Scientist and Research for the Future projects. The North West Community Stroke Choir joined us for part of the day and raised more than £100 with their festive songs.

Friday's [Christmas Jumper Day](#) raised £96 for Save the Children and a bake sale run by Yvonne Rostron, Kay Goulden and Jessica Pendlebury raised £127 for the stroke choir. Tonia Moore kindly donated some beautiful jewellery made by her father-in-law to be sold alongside all the fantastic bakes.

A very big thanks to everyone who donated prizes and bought tickets for Marie Greenhalgh's raffle in aid of Shelter, the housing and homelessness charity. There were a fabulous 40 prizes on offer and the raffle raised £190 for this good cause.

Bill's lecture is a big hit

Many thanks to everyone who came to hear our R+D Director Prof Bill Ollier give his Professorial Lecture last Wednesday. Bill gave us a fascinating whistle-stop tour of his career in research, including the chance encounters that shaped the twists and turns of his many interests. There was much to inspire us alongside some jaw-dropping moments and a fair bit of laughter. Salford Royal Executive Medical Director Chris Brookes introduced the lecture and spoke of how Bill's work will benefit patients for many years.

Please also save the date for next summer's Professorial Lecture which will be given by Prof Pippa Tyrrell and take place on 28 June (5pm). Currently Honorary Stroke Consultant at Salford Royal and Professor of Stroke Medicine at The University of Manchester, Pippa was the first specialist stroke physician to be appointed in Manchester in 1995. She has worked tirelessly to develop stroke services in the region ever since and played a key part in transforming stroke services in Greater Manchester, enabling stroke patients to access the 'gold standard' of care within the vital first few hours after a stroke. [Register here.](#)

Award to help ICH project

Bleeding in the brain (intracerebral haemorrhage or ICH) causes 1 in 10 strokes but accounts for a far higher proportion of death and disability. For those that do survive, over half remain dependent on others for day-to-day care.

But a team from Salford Royal, led by Honorary Consultant Neurologist Dr Adrian Parry-Jones, has been awarded £75,000 by independent health care charity the Health Foundation as part of its £1.5million Innovating for Improvement Programme. It will support a project that aims to reduce the percentage of patients dying or left severely disabled six months after they have been admitted to the hyperacute stroke unit (HASU) at Salford Royal, Stepping Hill or Fairfield with acute intracerebral haemorrhage.

Adrian has already brought in a hyperacute ICH care bundle at Salford Royal, which has resulted in an 8.5 per cent reduction in the number of patients dying within 30 days of being admitted with bleeding on the brain. [Read more.](#)

Prize and new role for Adrian

Congratulations are also due to Adrian Parry-Jones as he has been chosen to join the scientific committee of the British Association of Stroke Physicians. The committee contributes to the scientific content of the UK Stroke Forum and reviews applications for BASP/NIHR funded grant writing groups. He has previously been the trainee representative on the scientific committee.

In addition, Adrian was awarded the Warlow prize at the recent UK Stroke Forum for his presentation on the implementation of an acute care bundle for intracerebral haemorrhage (ICH) and 30-day case fatality at Salford Royal. The prize means that he has been invited to present the same work at the Australasian stroke conference next August.

Leading the way on intensive care study

Congratulations to the Acute Research Delivery Team, which has recruited 10 of the 14 patients in the UK onto a new intensive care study.

BRAVo is a proof of concept study looking at developing a rapid diagnostic test for ventilated patients clinically suspected to have ventilator associated pneumonia (VAP). Research nurses collect exhaled breath samples from the ventilator tubing of patients identified as having changes in chest X-rays, increased white cell count and tracheal secretions. These breath samples contain volatile organic compounds which are sent for analysis to an off site laboratory.

Current practice relies on labs culturing pathogenic organisms taken from lung secretions but this takes several days. In the meantime, broad spectrum anti- microbial agents are being used, possibly contributing to the development of anti-microbial resistance. This is why a rapid diagnostic test is urgently needed to check for VAP when it is clinically suspected.

Prestigious programme for Louise

Acute Research Delivery Team Lead Louise Harrison has been chosen for a prestigious national leadership course.

Louise is part of the first cohort of the National Institute for Health Research's Advanced Leadership Programme, which aims to improve the quality of leadership in health research. She was nominated by the NIHR Clinical Research Network Greater Manchester and began the six-month high-level course in September.

As part of the programme, she will be carrying out a project to improve the way we work across boundaries and organisations. Louise has worked in nursing since leaving school and has been at Salford Royal for five years where she is now the team lead for acute research, including stroke, critical care, accident and emergency, neurosurgery and trauma.

Have you seen our poster girls and boys?

The smiling faces of research staff can now be seen on posters around Salford Royal.

As part of our work to promote research to patients, visitors and colleagues, 20 large posters featuring messages about the importance and benefits of clinical trials have been put up around the site. Acting Senior Clinical Research Nurse Manager Vikki O'Loughlin, Engagement in Research Manager Jess Zadik, Research Practitioner Ambily Sathish and former colleagues George Georgiou, Amy Barratt and Phil Paterson all feature in the posters. They follow on from our successful social media campaign #whywedoresearch to raise awareness of research, with more than 250 messages on [Twitter](#) and a short film on [YouTube](#).

The posters are mainly around Ladywell Building and outpatients' waiting areas.

Double success for Research for the Future

The Research for the Future project linking patients with research studies they could take part in has been recognized with two prestigious awards.

The [Greater Manchester Clinical Research Network Awards](#) saw the team win the public engagement category for their tireless work promoting the benefits of research to patients and their innovative approach – including dressing up as Alice in Wonderland characters for Eccles Festival.

There was also a special award for the team's advisor, Lillian Fallows, in recognition of the way she goes above and beyond what's asked of her to make sure patients and researchers get the best possible help from the project.

Research for the Future already has a large database of people with diabetes, heart and respiratory problems who want to be involved in research. This saves times for researchers looking to involve people in their studies as patients have already expressed an interest in taking part.

A special award also went to NHS Salford CCG's Clinical Lead for diabetes and kidneys Dr Sheila McCorkindale, who is also primary care clinical research speciality lead for the NIHR Clinical Research Network: Greater Manchester, a GP appraiser and an undergraduate tutor. Sheila was recognised for the enthusiasm she brings to her many roles.

The team had a great night at the awards, along with shortlisted colleagues Adrian Parry-Jones and Jess Zadik. It would be great to see other teams recognised for their hard work - please take a little time to consider nominations for these awards which are now open for entries:

- [RCNi Nurse Awards](#) (deadline 6 January)
- [Patient Safety Awards](#) (deadline 13 January)
- [TARN Improvements in Care Award](#) (deadline 25 January)

CSB demolition and refurbishment underway

Work has begun to demolish parts of the Clinical Sciences Building at Salford Royal and refurbish the remaining block.

The building was initially constructed as a nurses' home and training rooms and has been used for many different functions over the years. It is no longer energy efficient and would require extensive refurbishment to bring it up to a satisfactory standard. As a result, blocks A, C and D are set to be demolished while block B – which includes the laboratories - will be refurbished.

It is planned that the space created by the demolition will be used for the expansion of the Major Trauma Centre and for the implementation of Healthier Together. The refurbishment of Block B is scheduled to be complete mid-2017 and after this staff will be decanted into Block B and the remaining blocks will then be demolished. See Salford Royal's intranet for the latest information about the work.

Latest from the Biomedical Research Centre

The National Institute for Health Research Manchester Biomedical Research Centre will launch in April. It will cover research into musculoskeletal disease, hearing health, respiratory disease, dermatology (led by Salford Royal's Prof Chris Griffiths) and three cancer themes (prevention, radiotherapy and precision

medicine). Staff are also exploring how Greater Manchester's strengths in informatics, biomarkers and translating research studies into clinical practice can best support the BRC's goals in improving health through research.

The Centre's first Newsletter is available [here](#) and you can see regular updates on Twitter by following [@ManchesterBRC](#).



Engagement

Need help recruiting to trials?

Help is just a phone call away if you need assistance recruiting volunteers to trials.

Salford's [Citizen Scientist](#) project can offer tailored assistance for your study, spreading the message to both patients and healthy volunteers.

The project gives local people a way to find out about and get involved in health research and has a database of more than 3,000 local people who are interested in taking part in research. Citizen Scientist Engagement and Communications Officer Natalie Balmain can promote studies via a website, newsletters and social media, providing a quick and easy way to reach potential participants.

Find out more about Citizen Scientist on its [website](#) or call [Natalie](#) on 0161 206 1828.



Funding

NIHR funding scheme workshop: i4i programme

The National Institute for Health Research Invention for Innovation (i4i) scheme supports clinically oriented collaborative projects, which have demonstrated proof-of-principle and have a clear pathway towards translation.

A workshop to provide assistance with applications for i4i funding will take place on Thursday 12 January, 11.45am-2.30pm at Citylabs 1.0, Nelson Street, Manchester.

This workshop is aimed at those intending to apply to this funding call, who have previously applied but been unsuccessful, or those who want to know more about i4i funding streams and support available during the application process. See more and [register here](#).

Free advice on NIHR applications

The [NIHR](#) is running a free event to help you submit applications. The NIHR Research Programmes: Obtaining NIHR Funding and the Application Process event is on 24 January in Liverpool.

The event, hosted by the [NIHR Research Design Service](#) and the [NIHR Evaluation, Trials and Studies Coordinating Centre](#), will explain more about the funding application process and give you an opportunity to discuss individual project ideas with NIHR advisers.

It will particularly focus on the Efficacy and Mechanism Evaluation, Health Technology Assessment and Public Health Research Programmes. For more information and to register visit the [event webpage here](#).

There is also a free workshop on 14 February (9.30am-4pm) [From research idea to funding application – putting your grant proposal together](#). It takes place at The Liner Hotel, Lord Nelson Street, Liverpool, L3 5QB and is aimed at health and social care professionals and researchers who want to develop and submit an application to NIHR Research for Patient Benefit (RfPB) or another NIHR research funding stream.

MAHSC review for Research for Patient Benefit applications

MAHSC will be reviewing applications to the latest call for National Institute for Health Research (NIHR) [Research for Patient Benefit grants](#), with the aim of enhancing competitiveness.

If you are employed by The University of Manchester, submission of your application to the internal peer review system is compulsory. R+D departments must be involved at an early stage in the preparation of applications to make sure all finance streams and details are correct.

PIs should work with their R+D departments to prepare an application and then send all paperwork, including a completed draft grant application form, to [Louise Berry](#) by Wednesday 15 February.



Training

Stroke study day

Salford Comprehensive Stroke Centre is hosting a stroke study day, with the focus on hyperacute and acute stroke, on Thursday 9 February. The free study day will be ideal for both clinicians and non-clinicians involved in acute stroke care and the programme includes:

- The Operational Delivery Network – supporting stroke care in Greater Manchester (Dr Jane Molloy)
- CT imaging of stroke (Dr Rekha Siripurapu)
- Intra-arterial thrombectomy: challenges and opportunities (Professor Craig Smith)
- Management of Intracerebral Haemorrhage (Dr Adrian Parry-Jones)
- Venous stroke: The evidence base for treatment (Dr Martin Punter)
- Interventional cardiology in stroke (Professor Simon Ray)
- What's new in stroke research? (Professor Pippa Tyrrell)

The study day will be chaired by Dr Amit Kishore and Dr Ilse Burger and takes place from 8am-3pm in Mayo Building at Salford Royal. [Register here.](#)



Events

Greater Manchester Cancer Vanguard Innovation Showcase. Dr Roger Prudham from Pennine Acute Hospitals Trust will give details of plans to deliver the highest standards of care for patients and update on the Clinical Service Accreditation Alliance at this meeting on 17 January, 5.15-6.15pm, at Citylabs 1.0, Nelson Street, Manchester. Email cancervanguard.gm@nhs.net if you want to attend.

[Greater Manchester Ageing Hub Conference.](#) This meeting will bring together key policy-makers to showcase best practice across Greater Manchester and internationally, in partnership with the World Health Organisation and the Centre for Ageing Better. It's on 16 February at the Museum of Science and Industry.

[Trauma Care Conference 2017.](#) From injury to recovery, linking the chain of survival is the theme of this conference from 15-18 March at Yarn Field Park, Staffordshire.

[Medicine 2017: Royal College of Physicians Annual Conference.](#) This conference will present cutting-edge research and showcase leading speakers, as well as hosting the RCP Excellence in Patient Care Awards. It's at Manchester Central on 16 and 17 March.

[Dementia: Implementing Better Care.](#) Prof Alistair Burns will be the keynote speaker at this conference to explore the best practices to help people live well with dementia. Sir David Dalton has also been invited to speak about the opportunities from Greater Manchester's devolution programme to transform care. It's on 20 April at King's House Conference Centre, Manchester.

[Informatics for Health 2017.](#) This event brings together Europe's leading conference, Medical Informatics Europe (MIE2017) from the European Federation for Medical Informatics (EFMI) and The Farr Institute International Conference 2017. It runs from 24-26 April 2017 at Manchester Central.

[Association of British Neurologists Annual Meeting.](#) This conference takes place from 3-5 May at The ACC Liverpool. The deadline for abstracts is 16 January.



Staff Updates

Congratulations to...

- Senior Clinical Research Nurse Manager Wendy Osborne, whose baby daughter Esme was born on 1 November, weighing 7lb 8oz.

Vacancies

- [Clinical Trials Pharmacist/Aseptic Pharmacist](#) – Band 8A (closing date 2 January).
- [Senior Research Practitioner \(Acute Research\)](#) – Band 6 (closing date 2 January).
- [Administrator](#) – Band 4 (closing date 2 January).

Please visit the [NHS Jobs](#) website for all internal or external vacancies.



Publications

Journals, articles, newsletters and blogs

- The latest Manchester Academic Health Science Centre Bulletin is available [here](#).
- Rachel Black, Catherine Hill, Susan Lester, William Dixon: [The association between systemic glucocorticoid use and the risk of cataract and glaucoma in patients with rheumatoid arthritis: A systematic review and meta-analysis](#) (PLOS One).
- Heather Logghe, Gianluca Pellino, Richard Brady, Alison McCoubrey, Sam Atallah: [How Twitter has connected the colorectal community](#) (Techniques in Coloproctology).
- Ed Barnard, David Yates, Antoinette Edwards, Marisol Fragoso-Iniguez, Tom Jenks, Jason Smith: [Epidemiology and aetiology of traumatic cardiac arrest in England and Wales – a retrospective database analysis](#) (Resuscitation).
- Joyutpal Das, Hector Chinoy, Jeremy Dick, Rachael Matthews, Mark Roberts: [A literature review of eosinophilic fasciitis with an illustrative case](#) (Current Rheumatology Reviews).
- Bilal Barkatali, Herbert Imalingat, James Childs, Andreas Baumann, Robin Paton: [MRI versus computed tomography as an imaging modality for postreduction assessment of irreducible hips in developmental dysplasia of the hip: an interobserver and intraobserver reliability study](#) (Journal of Pediatric Orthopaedics).
- Usman Butt, Mustafa Rashid, David Temperley, Stella Crank, Ann Birch, Anthony Freemont, Ian Trail: [Muscle regeneration following repair of the rotator cuff](#) (Bone and Joint Journal).
- Richard Ramsden, Simon Freeman, Simon Lloyd, Andrew King, Xin Shi, Charlotte Ward, Susan Huson, Deborah Mawman, Martin O'Driscoll, Dafydd Evans, Scott Rutherford: [Auditory brainstem implantation in neurofibromatosis Type 2: Experience from the Manchester Programme](#) (Otology and Neurotology).
- Emma Jenkinson, Paul Kasher, Anthony Oojageer, Laurence Goosey, Jill Urquhart, Simon Williams, Sanjeev Bhaskar, James O'Sullivan, Gillian Rice, Christopher Kershaw, Graham Pavitt, Sam Griffiths-Jones, Raymond O'Keefe, Imelda Hughes, Calvin Soh, Yanick Crow, et al: [Mutations in SNORD118 cause the cerebral microangiopathy leukoencephalopathy with calcifications and cysts](#) (Nature Genetics).
- Sarah Tansley, Gavin Shaddick, Lisa Christopher-Stine, Charlotte Sharp, Lyubomir Dourmishev, Britta Maurer, Hector Chinoy, Neil McHugh: [Developing standardised treatment for adults with myositis and different phenotypes: an international survey of current prescribing preferences](#) (Clinical and Experimental Rheumatology).
- Emma Gosnell, Bilal Anwar, Vinay Varadarajan, Simon Freeman: [Sternocleidomastoid pyomyositis](#) (European Annals of Otorhinolaryngology).

- Ross Atkinson, John Stephenson, Anna Jones, Karen Ousey: [An assessment of key risk factors for surgical site infection in patients undergoing surgery for spinal metastases](#) (Journal of Wound Care).
- Tasadoq Hussain, Michael Adams, Mushtaq Ahmed, N Arshad, Mamoon Solkar: [Intrahepatic perforation of the gallbladder causing liver abscesses: Case studies and literature review of a rare complication](#) (Annals of the Royal College of Surgeons of England).
- Mitchell Foster, Calvin Soh, Daniel Du Plessis, Konstantina Karabatsou: [Circumferential intradural meningioma of the thoracic spinal cord](#) (Spine Journal).
- Nicholas Collier, Faisal Ali, John Lear: [The safety and efficacy of sonidegib for the treatment of locally advanced basal cell carcinoma](#) (Expert Review of Anticancer Therapy).
- Efterpi Tingi, Akheel Syed, Alexis Kyriacou, George Mastorakos, Angelos Kyriacou: [Benign thyroid disease in pregnancy: A state of the art review](#) (Journal of Clinical and Translational Endocrinology).
- Helen Alderson, James Ritchie, Sabrina Pagano, Rachel Middleton, Menno Pruijm, Nicolas Vuilleumier, Philip Kalra: [The associations of blood kidney injury molecule-1 and neutrophil gelatinase-associated lipocalin with progression from CKD to ESRD](#) (Clinical Journal of the American Society of Nephrology).
- Lewis Kass-Iliyya, Matthew Leung, Andrew Marshall, Paula Trotter, Christopher Kobylecki, Susannah Walker, David Gosal, Maria Jeziorska, Rayaz Malik, Francis McGlone, Monty Silverdale: [The perception of affective touch in Parkinson's disease and its relation to small fibre neuropathy](#) (European Journal of Neuroscience).
- Miriam Smith, Naomi Bowers, Michael Bulman, Carolyn Gokhale, Andrew Wallace, Andrew King, Simon Lloyd, Scott Rutherford, Charlotte Hammerbeck-Ward, Simon Freeman, Gareth Evans: [Revisiting neurofibromatosis type 2 diagnostic criteria to exclude LZTR1-related schwannomatosis](#) (Neurology).
- Michael Cook, Alexander Oldroyd, Stephen Pye, Judith Adams, David Lee, Neil Pendleton, Frederick Wu, Terence O'Neill, et al: [Frailty and bone health in European men](#) (Age and Ageing).
- Christian Vestergaard, Elias Toubi, Marcus Maurer, Massimo Triggiani, Barbara Ballmer-Weber, Alexander Marsland, Marta Ferrer, Andre Knulst, Ana Gimenez-Arnau: [Treatment of chronic spontaneous urticaria with an inadequate response to H1-antihistamines: An expert opinion](#) (European Journal of Dermatology).
- Naomi Fulop, Angus Ramsay, Ruth Boaden, Satish Maddineni, Catherine Perry, David Shackley, Jonathan Vickers, Stephen Morris, et al: [Reorganising specialist cancer surgery for the 21st century: A mixed methods evaluation \(RESPECT-21\)](#) (Implementation Science).
- Miriam Smith, Soomin Ahn, Jung-Il Lee, Michael Bulman, Daniel du Plessis, Yeon-Lim Suh: [SMARCE1 mutation screening in classification of clear cell meningiomas](#) (Histopathology).
- Steven Wexner, Andrea Petrucci, Richard Brady, Marie Ennis-O'Connor, Edward Fitzgerald, Julio Mayol: [Social media in colorectal surgery](#) (Colorectal Disease).
- Ross Atkinson, Anna Jones, Karen Ousey, John Stephenson: [The management and cost of surgical site infection in patients undergoing surgery for spinal metastasis](#) (Journal of Hospital Infection).
- Abdul Lalkhen, Mahindra Chincholkar, Jiten Patel: [Microbiological evaluation of the extension wire and percutaneous epidural lead anchor site following a '2-stage cut-down' spinal cord stimulator procedure](#) (Pain Practice).
- David Chambers, Martin Allan: [Anaesthesia in the elderly](#) (Anaesthesia and Intensive Care Medicine).
- Jan Tack, Hugh Boardman, Peter Layer, Ingolf Schiefke, David Jayne, Shaheen Hamdy, Anton Emmanuel et al: [An expert consensus definition of failure of a treatment to provide adequate relief \(F-PAR\) for chronic constipation – an international Delphi survey](#) (Alimentary Pharmacology and Therapeutics).
- Olivia Skrobot, Johannes Attems, Margaret Esiri, Andrew King, David Mann, Seth Love, et al: [Vascular cognitive impairment neuropathology guidelines \(VCING\): the contribution of cerebrovascular pathology to cognitive impairment](#) (Brain: A Journal of Neurology).

- J Spence, Huw Pursell, John Large, Christian Hendriksz, Yeng Ang: [Endoscopy under general anaesthetic in patients with metabolic disorders](#) (British Journal of Hospital Medicine).
- Emma Howie, Jacki Bambrough, Konstantina Karabatsou, John Fox: [Patient experiences of awake craniotomy: An interpretative phenomenological analysis](#) (Journal of Health Psychology).
- Felicity Astin, Lorraine Burey, Penny Cook, Caroline O'Donnell, Christi Deaton, Kieley Lewthwaite, Dan Terry, Sam Lacey, Jack Adams, Katy Rothwell, John Humphreys: [A service improvement tool kit for effective heart failure management in primary care](#) (British Journal of Cardiac Nursing).
- Eugen Mengel, Mercedes Pinada, Christian Hendriksz, Mark Walterfang, Juan Torres, Stefan Kolb: [Differences in Niemann-Pick disease Type C symptomatology observed in patients of different ages](#) (Molecular Genetics and Metabolism).
- Diana Vassallo, James Ritchie, Darren Green, Constantina Chrysochou, Joseph Blunt, Philip Kalra: [The importance of proteinuria and prior cardiovascular disease in all major clinical outcomes of atherosclerotic renovascular disease – a single-center observational study](#) (BMC Nephrology).
- Ahmad Marzban, Ankur Saxena, Dev Bhattacharyya, Marcel Ivanov: [Hydrocephalus and papilledema in spinal cord tumors: A report of two cases](#) (Surgery Journal New York).
- Roger Gadsby, Bob Young: [Do changes to Quality and Outcomes Framework diabetes clinical indicators affect care as measured in the National Diabetes Audit?](#) (Diabetic Medicine).
- Robert Eendebak, Ilpo Huhtaniemi, Tomas Ahern, Robert Alston, Stephen Pye, Terence O'Neill, Neil Pendleton, Brian Keevil, Royston Goodacre, Martin Rutter, Gindo Tampubolon, Frederick Wu, et al: [The androgen receptor gene CAG repeat in relation to four-year changes in androgen-sensitive endpoints in community-dwelling older European men](#) (European Journal of Endocrinology).
- Maziar Khorsandi, Scott Dougherty, Andrew Sinclair, Keith Buchan, Fiona MacLennan, Omar Bouamra, Philip Curry, Vipin Zamvar, Geoffrey Berg, Nawwar Al-Attar: [A 20-year multicentre outcome analysis of salvage mechanical circulatory support for refractory cardiogenic shock after cardiac surgery](#) (Journal of Cardiothoracic Surgery).
- Ozgur Asar, James Ritchie, Philip Kalra, Peter Diggle: [Short-term and long-term effects of acute kidney injury in chronic kidney disease patients: A longitudinal analysis](#) (Biometrical Journal).
- Andrew Robinson, Laura Palmer, Seth Love, Andrew King, David Mann, et al: [Extended post-mortem delay times should not be viewed as a deterrent to the scientific investigation of human brain tissue: A study from the Brains for Dementia Research Network Neuropathology Study Group, UK](#) (Acta Neuropathologica).
- Hamish Hunter, Rainer Hinz, Alexander Gerhard, Peter Talbot, Zhangjie Su, G Holland, Stephen Hopkins, Christopher Griffiths, Elise Kleyn: [Brain inflammation and psoriasis: a \[C-11\]-\(R\)-PK11195 positron emission tomography study](#) (British Journal of Dermatology).
- Ian Armstrong, Sandra Hoffman: [Activity concentration measurements using a conjugate gradient \(Siemens xSPECT\) reconstruction algorithm in SPECT/CT](#) (Nuclear Medicine Communications).
- Andrew Morris, Naomi Gadsby, James McKenna, Thomas Hellyer, Paul Dark, Suveer Singh, Timothy Walsh, Danny McAuley, Kate Templeton, John Simpson, Ronan McMullen: [16S pan-bacterial PCR can accurately identify patients with ventilator-associated pneumonia](#) (Thorax).
- Mar Carreno, Christian Bien, Ali Asadi-Pooya, Rajiv Mohanraj, Francesc Graus, et al: [Epilepsy surgery in drug resistant temporal lobe epilepsy associated with neuronal antibodies](#) (Epilepsy Research).

Journal articles are available through the [Library Service](#), details and links to e-journals are available through the [online library catalogue](#).

How to submit articles

R+D Bulletin is published on the third Wednesday of each month. Please submit articles to claire.mooney@manchester.ac.uk by close of play on the preceding Monday.

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