Recent Publications - Faculty of Health Sciences

BY MEMBERS OF THE STAFF AND BY RESEARCH STUDENTS WORKING UNDER THEIR SUPERVISION

The publications information has been derived from the College’s Research Support System. Every effort has been made to ensure that the information is accurate and complete. Please notify the Research Support Systems Administrator (email: rssadmin@tcd.ie) of any errors or omissions which will be corrected in next year’s Calendar.

School of Dental Science

Coleman, David, 'First detailed characterization of the structural organization of type III arginine catabolic mobile elements (ACMES) harbored by Staphylococcus epidermidis by whole genome sequencing', Antimicrobial Agents and Chemotherapy, 61, 10 (2017), 1-5 [B.A. McManus, A.M. O’Connor, P.M. Kinnevey, M. O’Sullivan, I. Polyzois, D.C. Coleman]


'First description of novel arginine catabolic mobile elements (ACMES) types IV and V harboring a kdp operon in Staphylococcus epidermidis characterized by whole genome sequencing', Infection, Genetics and Evolution, 61 (2018), 60-66 [A.M. O’Connor, B.A. McManus, D.C. Coleman]


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**Kinnevey, Peter**, 'First detailed characterization of the structural organization of type III arginine catabolic mobile elements (ACMES) harbored by *Staphylococcus epidermidis* by whole genome sequencing', *Antimicrobial Agents and Chemotherapy*, 61, 10 (2017), 1-5:E01216-17 [B.A. McManus, A.M. O’Connor, P.M. Kinnevey, M. O’Sullivan, I. Polyzois, D.C. Coleman]

'Novel multiresistance cfr-plasmids in linezolid-resistant meticillin resistant *Staphylococcus epidermidis* and vancomycin-resistant *Enterococcus faecium* (VRE) from a hospital outbreak: first report of the co-location of cfr and optA in VRE', *Journal Of Antimicrobial Chemotherapy*, 72, 12 (2017), 3252-3257 [A. Lazaris, D.C. Coleman, A.M. Kears (…), P.M. Kinnevey *et al.*]

**McManus, Brenda**, 'First detailed characterization of the structural organization of type III arginine catabolic mobile elements (ACMES) harbored by *Staphylococcus epidermidis* by whole genome sequencing', *Antimicrobial Agents and Chemotherapy*, 61, 10 (2017), 1-5:E01216-17 [B.A. McManus, A.M. O’Connor, P.M. Kinnevey, M. O’Sullivan, I. Polyzois, D.C. Coleman]

'First description of novel arginine catabolic mobile elements (ACMES) types IV and V harboring a kdp operon in *Staphylococcus epidermidis* characterized by whole genome sequencing', *Infection, Genetics and Evolution*, 61 (2018), 60-66 [A.M. O’Connor, B.A. McManus, D.C. Coleman]


'The *Candida albicans* TOR-activating GTPases Gtr1 and Rhb1 coregulate starvation responses and biofilm formation', *mSphere*, 2, 6 (2017), http://dx.doi.org/10.1128/mSphere.00477-17 [P.R. Flanagan, N.N. Liu, D.J. Fitzpatrick, K. Hokamp, J.R. Köhler, G.P. Moran]


**ORAL AND MAXILLOFACIAL SURGERY, MEDICINE, PATHOLOGY AND RADIOLOGY**


Clarke, Mary, 'An audit of the baseline dental status and treatment need of individuals referred to Dublin Dental University Hospital for a pre-radiotherapy dental and oral assessment', *Journal of the Irish Dental Association*, 63, 5 (2017), 269-276 [D. Mac Carthy, M. Clarke, M. O’ Regan]


**PUBLIC AND CHILD DENTAL HEALTH**


'A systematic review of the use of local analgesia in medically compromised children and adolescents', *European Archives of Paediatric Dentistry*, 18, 5 (2017), 331-343 [A. Dougall, M. Hayes, B. Daly]
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'A systematic review of the use of local analgesia in medically compromised children and adolescents', European Archives of Paediatric Dentistry, 18, 5 (2017), 331-343 [A. Dougall, M. Hayes, B. Daly]


Duane, Brett, 'Delivery of information to orthodontic patients using social media', Evidence-Based Dentistry, 18, 2 (2017), 59-60 [S. O'Brien, B. Duane]

'Psychological approaches to behaviour for improving plaque control', Evidence-Based Dentistry, 18, 1 (2017), 3-4 [B. Duane]


'Coronally advanced flap combined with connective tissue graft; treatment of choice for root coverage following recession?', Evidence-Based Dentistry, 18, 1 (2017), 6-7 [E. Madeley, B. Duane]

'Evidence for use of intraoral scanners under clinical conditions for obtaining full-arch digital impressions is insufficient', Evidence-Based Dentistry, 18, 1 (2017), 24-25 [H. Khraishi, B. Duane]

'Using the simplified case mix tool (sCMT) to identify cost in special care dental services to support commissioning', Community Dental Health, 34, 1 (2017), 56-59 [B.G. Duane, R. Freeman, D. Richards, S. Crosbie, P. Patel, S. White, G. Humphris]


'Diagnostic accuracy of parents' ratings of their child's oral health-related quality of life', Quality of Life Research, 26, 4 (2017), 881-891 [D.R. Reisssmann, M.T. John, D. Sagheri, I. Sierwald]
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RESTORATIVE DENTISTRY AND PERIODONTOLOGY


'Plaque control and oral hygiene methods', *Journal of the Irish Dental Association*, 63, 3 (2017), 151-156 [P. Harrison]


**MacCarthy, Denise**, 'An audit of the baseline dental status and treatment need of individuals referred to Dublin Dental University Hospital for a pre-radiotherapy dental and oral assessment', *Journal of the Irish Dental Association*, 63, 5 (2017), 269-276 [D. MacCarthy, M. Clarke, M. O'Regan]


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'First detailed characterization of the structural organization of type iii arginine catabolic mobile elements (ACMES) harbored by Staphylococcus epidermidis by whole genome sequencing', Antimicrobial Agents And Chemotherapy, 61, 10 (2017), 1-5:E01216-17 [B.A. McManus, A.M. O'Connor, P.M. Kinnevey, M. O'Sullivan, I. Polyzois, D.C. Coleman]


'Sarcopenia during neoadjuvant therapy for oesophageal cancer: characterising the impact on muscle strength and physical performance', Supportive Care in Cancer (2017), http://dx.doi.org/10.1007/s00520-017-3993-0 [E.M. Guinan, S.L. Doyle, A.E. Bennett (...), J.V. Reynolds, J. Hussey]


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'The ExPeCT (Exercise, Prostate Cancer and Circulating Tumour Cells) trial: study protocol for a randomised controlled trial', Trials, 18 (2017), 456 [G. Sheill, L. Brady, E. Guinan (...), R. McDermott, S. Finn]


'Reduced fitness and physical functioning are long-term sequelae after curative treatment for oesophageal cancer: a case-control study', Diseases of the Esophagus, 30, 8 (2017), 1-7 [J.A. Gannon, E.M. Guinan, S.L. Doyle, P. Beddy, J.V. Reynolds, J. Hussey]


'Patient experiences of a physiotherapy-led multidisciplinary rehabilitative intervention after successful treatment for oesophageo-gastric cancer', Supportive Care in Cancer (2018), 1-9 [A.E. Bennett, L. O'Neill, D. Connolly (...), E.M. Guinan et al.]

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'KAT5 (Tip60) is a potential therapeutic target in malignant pleural mesothelioma', *International Journal of Oncology*, 48, 3 (2016), 1290-6 [S. Cregan, L. McDonagh, Y. Gao, M.P. Barr, K.J. O'Byrne, S.P. Finn, S. Cufie, S.G. Gray]

'Targeting the cancer stem cell marker, aldehyde dehydrogenase 1, to circumvent cisplatin resistance in NSCLC', *Oncotarget*, 8, 42 (2017), 72544-72563 [L. MacDonagh, M.F. Gallagher, B. Ffrench (...), K.J. O'Byrne, M.P. Barr]


'Bafilomycin a1 induces caspase-independent cell death in hepatocellular carcinoma cells via targeting of autophagy and MAPK pathways', *Scientific Reports*, 6 (2016), 37052 [Y. Yan, K. Jiang, P. Liu (...), M.P. Barr *et al.*]


'Ex-Th17 (nonclassical Th1) cells are functionally distinct from classical Th1 and Th17 cells and are not constrained by regulatory T cells', *Journal of Immunology* (2017), https://doi.org/10.4049/jimmunol.1600737 [S.A. Basdeo, D. Cluxton, J. Sulaimani (...), U. Fearon, J.M. Fletcher]


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‘Survival prediction in amyotrophic lateral sclerosis based on MRI measures and clinical characteristics’, *BMC Neurol.*, 17, 1 (2017), 73 [C. Schuster, O. Hardiman, P. Bede]


‘From pneumomyelography to cord tractography: historical perspectives on spinal imaging’, *Future Neurol.*, 12, 3 (2017), 121-124 [P. Bede, E. Finegan, O. Hardiman]

‘Deciphering neurodegeneration: a paradigm shift from focality to connectivity’, *Neurology*, 89 (2017), 1-2 [P. Bede]

‘Revisiting the pathoanatomy of pseudobulbar affect: mechanisms beyond corticobulbar dysfunction’, *Amyotroph Lateral Scler Frontotemporal Degener*, 2 (2017), 1-3 [P. Bede, E. Finegan.]


‘Longitudinal structural changes in ALS: a three time-point imaging study of white and gray matter degeneration’, *Amyotroph Lateral Scler Frontotemporal Degener*, (2017), 1-10 [P. Bede, O. Hardiman]


**Bennett, Annemarie**, ‘An evaluation of factors which can affect the capacity of schools to implement a health promotion programme under the Schools for Health in Europe framework’, *Evaluation and Program Planning*, 57, August (2016), 50-54 [A.E. Bennett, C. Cunningham, C. Johnston Molloy]


‘Sarcopenia during neoadjuvant therapy for oesophageal cancer: characterising the impact on muscle strength and physical performance’, *Supportive Care in Cancer*, (2017), http://dx.doi.org/10.1007/s00520-017-3993-0 [E.M. Guinan, S.L. Doyle, A.E. Bennett (…), J.V. Reynolds, J. Hussey]

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'Predictors of vitamin D supplementation amongst infants in Ireland throughout the first year of life', Journal of Public Health, (2018), 1-7 [A.E. Bennett, J.M. Kearney]


Cournane, Sean, 'Broadband access, housing and car ownership as deprivation predictors of the emergency medical admission', European Journal of Internal Medicine, 35 (2016), e25-e26 [R. Conway, S. Cournane, D. Byrne, D. O'Riordan, S. Covenev, B. Silke]

'Time patterns in mortality after an emergency medical admission; relationship to weekday or weekend admission', European Journal of Internal Medicine, 36 (2016), 44-49 [R. Conway, S. Cournane, D. Byrne, D. O'Riordan, B. Silke]

'Social factors determine the emergency medical admission workload', Journal of Clinical Medicine, 6, 6 (2017), 59 [S. Cournane, R. Conway, D. Byrne, D. O'Riordan, S. Covenev, B. Silke]

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'Improved mortality outcomes over time for weekend emergency medical admissions', Irish Journal of Medical Science, (2017), 1-7 [R. Conway, S. Cournane, D. Byrne, D. O'Riordan, B. Silke]

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'Persons with disability, social deprivation and an emergency medical admission', Irish Journal of Medical Science (2018), http://dx.doi.org/10.1007/s11845-018-1736-y [S. Cournane, R. Conway, D. Byrne, D. O'Riordan, B. Silke]

'Predicting outcomes in emergency medical admissions using a laboratory only nomogram', Computational and Mathematical Methods in Medicine, (2017), 5267864 [S. Cournane, R. Conway, D. Byrne, D. O'Riordan, B. Silke]

'Interaction of broadband access and education levels in determining the rate of emergency medical admissions', Irish Medical Journal, 110, 9 (2017), 636 [R. Conway, S. Cournane, D. Byrne, D. O'Riordan, S. Covenev, B. Silke]
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'Pulmonary fibrosis in connective tissue disease (CTD): urgent challenges and opportunities', *QJM*, 110, 8 (2017), 475-476 [A. Fischer, S.C. Donnelly]


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'Why is the United States a sick country?’, *QJM*, 110, 2 (2017), 57-58 [S.C. Donnelly]


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X146 Calendar 2018-19
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'Skin microbiome before development of atopic dermatitis: early colonization with commensal staphylococci at 2 months is associated with a lower risk of atopic dermatitis at 1 year', *Journal of Allergy and Clinical Immunology*, 139, 1 (2017), 166-172 [E.A. Kennedy, J. Connolly, J.O. Hourihane (...), P.G. Fallon et al.]


'New insights into IL-10 dependent and IL-10 independent mechanisms of regulatory B cell immune suppression', *Journal of Clinical Immunology*, 36, 1 (2016), 25-33 [A. Floudas, S. Amu, P.G. Fallon]

'The PDGF-BB-SOX7 axis-modulated IL-33 in pericytes and stromal cells promotes metastasis through tumour-associated macrophages', *Nature Communications*, 7 (2016), 11385 [Y. Yang, P. Andersson, K. Hosaka (...), P.G. Fallon et al.]

'Treatment of ongoing autoimmune encephalomyelitis with activated B-cell progenitors maturing into regulatory B cells', *Nature Communications*, 7 (2016), 12134 [S. Korniotis, C. Gras, H. Letscher (...), P.G. Fallon]


'Perinatal activation of the interleukin-33 pathway promotes type 2 immunity in the developing lung', *Immunity*, 45, 6 (2016), 1285-1298 [I.M. de Kleer, M. Kool, M.J. de Bruijn (...), P.G. Fallon et al.]

'Initiation of antiviral B cell immunity relies on innate signals from spatially positioned NKT cells', *Cell*, 172, 3 (2018), 517-533.e20 [M. Gaya, P. Barral, M. Burbage (...), P.G. Fallon et al.]

'IL-17 receptor A maintains and protects the skin barrier to prevent allergic skin inflammation', *Journal of Immunology (Baltimore, Md.:1950)*, 199, 2 (2017), 707-717 [A. Floudas, S.P. Saunders, T. Moran (...), P.T. Walsh, P.G. Fallon]
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'Epidermal growth factor receptor expression licenses type-2 helper T cells to function in a T cell receptor-independent fashion', Immunity, 47, 4 (2017), 710-722.e6 [C.M. Minutti, S. Drube, N. Blair (…), P.G. Fallon et al.]


'Falls risk, orthostatic hypotension, and optimum blood pressure management: is it all in our heads?', American Journal of Hypertension, 30, 2 (2017), 115-117 [C. Finucane, R.A. Kenny]


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‘The PDGF-BB-SOX7 axis-modulated IL-33 in pericytes and stromal cells promotes metastasis through tumour-associated macrophages’, *Nature Communications*, 7 (2016), 11385 [Y. Yang, P. Andersson (…), E. Hams et al.]


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‘Neuroimaging patterns along the ALS-FTD spectrum: a multiparametric imaging study’, *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 18 (2017), 611-623 [T. Omer, E. Finegan, S. Hutchinson (…), O. Hardiman, P. Bede]


‘Survival prediction in amyotrophic lateral sclerosis based on MRI measures and clinical characteristics’, *BMC Neurol*, 17, 1 (2017), 73 [C. Schuster, O. Hardiman, P. Bede]


‘From pneumomyelography to cord tractography: historical perspectives on spinal imaging’, *Future Neurol*, 12, 3 (2017), 121-124 [P. Bede, E. Finegan, O. Hardiman]

‘Longitudinal structural changes in ALS: a three time-point imaging study of white and gray matter degeneration’, *Amyotroph Lateral Scler Frontotemporal Degener* (2017), 1-10 [P. Bede, O. Hardiman]


Calendar 2018-19 X149
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'Estimation of coherence using the median is robust against EEG artefacts', *2017 39th annual international conference of the IEEE engineering in medicine and biology society (EMBC)*, Jeju, South Korea (2017), 3949 -3952 [S. Dukic, P.M. Iyer, K. Mohr, O. Hardiman, E.C. Lalor, B. Nasseroleslami]


'Trauma and amyotrophic lateral sclerosis: a European population-based case-control study from the EURALS consortium', *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration* (2017), 1-8 [E. Pupillo, M. Poloni, E. Bianchi (…), O. Hardiman et al.]

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'July 2017 ENCALS statement on edaravone', *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 18, 7-8 (2017), 471-474 [A. Al-Chalabi, P.M. Andersen, S. Chandran (…), O. Hardiman, L.H. van den Berg]


'Caregivers of patients with amyotrophic lateral sclerosis: investigating quality of life, caregiver burden, service engagement, and patient survival', *Journal of Neurology*, 264, 5 (2017), 898-904 [T. Burke, M. Galvin, M. Pinto-Grau (…), O. Hardiman, N. Pender]


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‘Connectivity-based characterisation of subcortical grey matter pathology in frontotemporal dementia and ALS: a multimodal neuroimaging study’, *Brain Imaging Behav* (2018), 1-19 [P. Bede, T. Omer, E. Finegan (...), S. Hutchinson, O. Hardiman]

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'Pembrolizumab-related sarcoid-like reaction presenting as reactivation of quiescent scars', *Journal of Oncology Practice (ASCO)*, 4th January (2018), 3 [M.C. McKenna, K. Molloy, S. Crowther, J. Feeney, A. Gillis, M. Connolly, F. Kelleher]


'Monocytes, macrophages, and osteoclasts in osteosarcoma', *Journal of Adolescent and Young Adult Oncology*, September, 6, 3, (2017), 396-405 [F.C. Kelleher, H. O'Sullivan]


'Kidney function estimated from cystatin C, but not creatinine, is related to objective tests of physical performance in community-dwelling older adults', *The Journals of Gerontology. Series A: Biological Sciences and Medical Sciences*, (2017), 1554-1560 [M. Canney, D.J. Sexton, M.D. O'Connell, R.A. Kenny, M.A. Little, C.M. O'Seaghdha]

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'Alterations in circulating lymphoid cell populations in systemic small vessel vasculitis are non-specific manifestations of renal injury', *Clinical and Experimental Immunology*, 191, 2 (2018), 180-188 [B. Fazekas, A. Moreno-Olivera, Y. Kelly (...), D.G. Doherty, M.A. Little]
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'NK cells in childhood obesity are activated, metabolically stressed, and functionally deficient', JCI Insight, 2, 24 (2017), e94939 [L.M. Tobin, M. Mavinkurve, E. Carolan (...), M.A. Little et al.]


'Validation of the EULAR/ERA-EDTA recommendations for the management of ANCA-associated vasculitis by disease content experts', RMD Open, 3 (2017), e000449 [M. Yates, R. Watts, I. Bajema (...), M.A. Little et al]


'RACK1 in cancer cell migration and invasion', Cellular Signalling, 35 (2017), 250-255 [D. Duff, A. Long]


'Doxycholic acid promotes development of gastroesophageal reflux disease and Barrett's oesophagus by modulating integrin-av trafficking', Journal of Cellular and Molecular Medicine, 21, 12 (2017), 3612-3625 [D.O. Prichard, A.M. Byrne, J.O. Murphy (...), D.P. Kelleher, A. Long]


'Cross phenotype association mapping of the MHC identifies genetic variants that differentiate psoriatic arthritis from psoriasis', Annals of Rheumatic Diseases, 76, 10 (2017), 1774-1779 [J. Bowes, J. Ashcroft, N. Dand (...), R. McManus et al.]

McNamara, Deirdre, 'One-year clinical outcomes in an IBD cohort who have previously had anti-TNFa trough and antibody levels assessed', Inflammatory Bowel Disease, 23, 7 (2017), 1154-1159 [D. Tighe, B. Hall, S.K. Jeyarajah, S. Smith, N. Breslin, B. Ryan, D. McNamara]

'Clinical outcome of patients with raised intraepithelial lymphocytes with normal villous architecture on duodenal biopsy', Digestion, 95 (2017), 288-292 [V. Parihar, R. Stack. A. Alakkari, N. Breslin, B. Ryan, S. Crowther, D. McNamara]


Calendar 2018-19 X153
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'The role and regulation of the 11 beta-hydroxysteroid dehydrogenase enzyme system in patients with inflammatory bowel disease', *Digestive Diseases and Sciences* (2017), September, 4 [M. Hussey, G. Holleran, S. Smith, M. Sherlock, D. McNamara]

'Impact of gender on decisions to participate in faecal immunochemical test-based colorectal cancer screening: a qualitative study', *Psychooncology*, 25, 12 (2016), 1456-1462 [N. Clarke, P. Gallagher, P.M. Kearney, D. McNamara, L. Sharp]

'Positive relationship between infliximab and adalimumab trough levels at completion of induction therapy with clinical response rates at a tertiary referral centre', *Journal of Gastroenterology and Hepatology Open*, 1, 1 (2017), 4-10 [D. Tighe, S. Smith, A. O'Connor, N. Breslin, B. Ryan, D. McNamara]


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'Greater yogurt consumption is associated with increased bone mineral density and physical function in older adults', *Osteoporosis International*, 28, 8 (2017), 2409-2419 [E. Laird, A.M. Molloy, H, McNulty (...), J.J. Strain, M.C. Casey]


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'The Irish DNA atlas: revealing fine-scale population structure and history within Ireland', *Scientific Reports*, 7, 1 (2017), 17199 [E. Gilbert, S. O'Reilly, M. Merrigan (...), A.M. Molloy et al.]

Nasseroleslami, Bahman, 'Mismatch negativity as an indicator of cognitive sub-domain dysfunction in amyotrophic lateral sclerosis', *Front Neuror.*, 8 (2017), 395 [P.M. Iyer, K. Mohr, M. Broderick (...), O. Hardiman, B. Nasseroleslami]


'Estimation of coherence using the median is robust against EEG artefacts', *39th Annual international conference of the IEEE engineering in medicine and biology society (EMBC)*, Jeju, South Korea (2017), 3949-3952 [S. Dukic, P.M. Iyer, K. Mohr, O. Hardiman, E.C. Lalor, B. Nasseroleslami]


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'Nucleolar caspase-2: protecting us from DNA damage', Journal of Cell Biology, 216, 6 (2017), 1521-1523 [K.J. O'Byrne, D.J. Richard]

'O'Sullivan, Maria, 'Is there a role for vitamin D in supporting cognitive function as we age?', Proc Nutr Soc., December 13, Epub (2017), 1-11 [N. Aspell, B. Lawlor, M. O'Sullivan]


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Walsh, Patrick, 'IL-17 receptor A maintains and protects the skin barrier to prevent allergic skin inflammation', *Journal of Immunology*, 199, 2 (2017), 707-717 [A. Floudas, S.P. Saunders, T. Moran (…), P.T. Walsh, P.G. Fallon]


Windle, Henry, 'Surface layer proteins from virulent *Clostridium difficile* ribotypes exhibit signatures of positive selection with consequences for innate immune response', *BMC Evolutionary Biology*, 17, 1 (2017), 90 [M. Lynch, T.A. Walsh, I. Marszalowska (…), H. Windle et al.]

CLINICAL MICROBIOLOGY


'Variability in trough total and unbound teicoplanin concentrations and achievement of therapeutic drug monitoring targets in adult patients with haematological malignancy', *Antimicrobial Agents and Chemotherapy*, 61, 6 (2017), e02466-16 [C.J. Byrne, J.A. Roberts, B. McWhinney (…), J.P. Fennell et al.]

'Population pharmacokinetics of teicoplanin and attainment of pharmacokinetic / pharmacodynamic targets in adult patients with haematological malignancy', *Clinical Microbiology and Infection*, 23, 9 (2017), 674.e7-674.e13 [C.J. Byrne, J.A. Roberts, B. McWhinney (…), J.P. Fennell et al.]


'Draft genome sequence of a New Zealand Rangipo strain of *Mycobacterium tuberculosis*, *Genome Announcements*, 4, 4 (2016), e00657-16 [M. Mac Aogáin, S.S. Gautam, J.E. Bower, I. Basu, R.F. O'Toole]

'Limitations of the *Mycobacterium tuberculosis* reference genome H37Rv in the detection of virulence-related loci', *Genomics*, 109, 5-6 (2017), 471-474 [R.F. O'Toole, S.S. Gautam]
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X195
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