

**Publications by Stephen Baker**  
(as of May 2025)

Phat VV, Lim AST, De Cozar-Gallardo C, Alvaro MIC, Alvarez DM, Alvaro EF, Ballell-Pages L, Lozano-Arias S, **Baker S**. A three-dimensional high throughput assay identifies novel antibacterial molecules with activity against intracellular Shigella. *Npj Antimicrobials and Resistance*. 2025; 3, Article 1.

Calman A. MacLennan, Adam F. Cunningham, Johanna E. Dean, Susan Pope, Evelina Balandyte-Shergill, Jamie Pillaye, Brian M. Greenwood, Richard A. Adegbola, **BactiVac Network Group of Authors**. BactiVac, the Bacterial Vaccines Network. *Vaccine*. 2025; 33(12):127210.

Zhou H, Jia C, Shen P, Huang C, Teng L, Wu B, Wang Z, Wang H, Xiao Y, **Baker S**, Weill FX, Li Y, Yue M. Genomic census of invasive nontyphoidal *Salmonella* infections reveals global and local human-to-human transmission. *Nat Med*. 2025 Apr 9. doi: 10.1038/s41591-025-03644-4. PMID: 40205197.

Pinto M, Durante S, Carducci M, Massai L, Alfini R, Mylona E, Karkey A, **Baker S**, Micoli F, Giannelli C, Rossi O, Rondini S. The *Salmonella Paratyphi A* O-Antigen Glycoconjugate Vaccine Is Able to Induce Antibodies with Bactericidal Activity Against a Panel of Clinical Isolates. *Vaccines (Basel)*. 2025 Jan 25;13(2):122. doi: 10.3390/vaccines13020122. PMID: 40006669; PMCID: PMC11860196.

Scott TA, Baker KS, Trotter C, Jenkins C, Mostowy S, Hawkey J, Schmidt H, Holt KE, Thomson NR, **Baker S**. *Shigella sonnei*: epidemiology, evolution, pathogenesis, resistance and host interactions. *Nat Rev Microbiol*. 2024 Nov 27. doi: 10.1038/s41579-024-01126-x. PMID: 39604656.

Jacob JJ, Aravind V, Beresford-Jones BS, Lal YB, Shankar C, Yesudoss M, Abdullah F, Priya TM, Kulkarni S, **Baker S**, Veeraraghavan B, Walia K. Limited Evidence of Spillover of Antimicrobial-Resistant *Klebsiella pneumoniae* from Animal/Environmental Reservoirs to Humans in Vellore, India. *J Epidemiol Glob Health*. 2024 Nov 12. doi: 10.1007/s44197-024-00323-4. PMID: 39531180.

Tsang KK, Lam MMC, Wick RR, Wyres KL, Bachman M, **Baker S**, Barry K, Brisse S, Campino S, Chiaverini A, Cirillo DM, Clark T, Corander J, Corbella M, Cornacchia A, Cuénod A, D'Alterio N, Di Marco F, Donado-Godoy P, Egli A, Farzana R, Feil EJ, Fostervold A, Gorrie CL, Hassan B, Hetland MAK, Hoa LNM, Hoi LT, Howden B, Ikhimiukor OO, Jenney AWJ, Kaspersen H, Khokhar F, Leangapichart T, Ligowska-Marzeta M, Löhr IH, Long SW, Mathers AJ, McArthur AG, Nagaraj G, Oaikhena AO, Okeke IN, Perdigão J, Parikh H, Pham MH, Pomilio F, Raffelsberger N, Rakotondrasoa A, Kumar KLR, Roberts LW, Rodrigues C, Samuelsen Ø, Sands K, Sassera D, Seth-Smith H, Shamanna V, Sherry NL, Sia S, Spadar A, Stoesser N, Sunde M, Sundsfjord A, Thach PN, Thomson NR, Thorpe HA, Torok ME, Trang VD, Trung NV, Vornhagen J, Walsh T, Warne B, Wilson H, Wright GD, Holt KE, KlebNET-Gsp Amr Genotype-Phenotype Group. Diversity, functional classification and genotyping of SHV β-lactamases in *Klebsiella pneumoniae*. *Microb Genom*. 2024 Oct;10(10). doi: 10.1099/mgen.0.001294. PMID: 39432416.

Nguyen HTT, Chau V, Nguyen PHL, Du HD, Nguyen LNP, Le TQN, Huynh PT, Nguyen TNT, Tran TND, Voong VP, Ha TT, Nguyen PNQ, **Baker S**, Thwaites G, Rabaa M, Pham DT. Changing epidemiology and antimicrobial susceptibility of bloodstream infections at a Vietnamese infectious diseases hospital (2010-2020). NPJ Antimicrob Resist. 2024;2(1):32. doi: 10.1038/s44259-024-00049-0. Epub 2024 Oct 16. PMID: 39431121; PMCID: PMC11485239.

Mylona E, Pereira-Dias J, Keane JA, Karkey A, Dongol S, Khokhar F, Tran TA, Cormie C, Higginson E, **Baker S**. Phenotypic variation in the lipopolysaccharide O-antigen of *Salmonella Paratyphi A* and implications for vaccine development. Vaccine. 2024 Oct 8;42(26):126404. doi: 10.1016/j.vaccine.2024.126404. PMID: 39383552.

Mahindroo J, Thanh DP, Kaur H; To Nguyen Thi Nguyen; Nguyen THT, Carey ME, Verma R, Mohan B, Thakur S, **Baker S**, Taneja N. The genomic diversity and antimicrobial resistance of Non-typhoidal *Salmonella* in humans and food animals in Northern India. One Health. 2024 Sep 12;19:100892. doi: 10.1016/j.onehlt.2024.100892. PMID: 39345727; PMCID: PMC11439553.

**GBD 2021 Antimicrobial Resistance Collaborators**. Global burden of bacterial antimicrobial resistance 1990-2021: a systematic analysis with forecasts to 2050. Lancet. 2024 Sep 13:S0140-6736(24)01867-1. doi: 10.1016/S0140-6736(24)01867-1. PMID: 39299261.

**Baker S**, Krishna A, Higham S, Naydenova P, O'Leary S, Scott JB, Harcourt K, Forrest S, Goulding D, Thi Nguyen TN, Toan ND, Alekseeva E, Zhou Q, Andreozzi I, Sobotic B, Craig H, Wong V, Forrest-Owen N, Sanchez DM, Pearce C, Roberts L, Watson S, Clare S, Torok ME, Dougan G, Kellam P, Tregoning JS, Reece ST. Exploiting human immune repertoire transgenic mice for protective monoclonal antibodies against antimicrobial resistant *Acinetobacter baumannii*. Nat Commun. 2024 Sep 12;15(1):7979. doi: 10.1038/s41467-024-52357-8. PMID: 39266557.

Nguyen VK, Noisumdaeng P, Ivanovitch PMK, **Baker S**, Athan E, Jones S, Lan LT, Croft L, Lee YP, Cassidy T, Tran VH, Phan TH, Ho HT. Epidemiology and Clonal Spread Evidence of Carbapenem-Resistant Organisms in the Center of Care and Protection of Orphaned Children, Vietnam. Open Journal of Medical Microbiology, 2024, 14, 165-189

Liu C, Guo J, Fan S, Guo W, Qi H, **Baker S**, Du P, Cao B. An increased prevalence of carbapenem-resistant hypervirulent *Klebsiella pneumoniae* associated with the COVID-19 pandemic. Drug Resist Updat. 2024 Aug 2;77:101124. doi: 10.1016/j.drup.2024.101124. PMID: 39128195.

Xiang Y, Zhu K, Min K, Zhang Y, Liu J, Liu K, Han Y, Li X, Du X, Wang X, Huang Y, Li X, Peng Y, Yang C, Liu H, Liu H, Li X, Wang H, Wang C, Wang Q, Jia H, Yang M, Wang L, Wu Y, Cui Y, Chen F, Yang H, **Baker S**, Xu X, Yang J, Song H, Qiu S. Characterization of a *Salmonella enterica* serovar Typhimurium lineage with rough colony morphology and multidrug resistance. Nat Commun. 2024 Jul 20;15(1):6123. doi: 10.1038/s41467-024-50331-y. PMID: 39033143.

Dyson ZA, Ashton PM, Khanam F, Chunga Chirambo A, Shakya M, Meiring JE, Tonks S, Karkey A, Msefula C, Clemens JD, Dunstan SJ, **Baker S**, Dougan G, Pitzer VE, Basnyat B, Qadri F, Heyderman RS, Gordon MA, Pollard AJ, Holt KE; STRATAA Study Group. Pathogen diversity and antimicrobial resistance transmission of *Salmonella enterica* serovars Typhi and Paratyphi A in Bangladesh, Nepal, and Malawi: a genomic epidemiological study. *Lancet Microbe*. 2024 Jul 6:S2666-5247(24)00047-8. doi: 10.1016/S2666-5247(24)00047-8. PMID: 38996496.

Carey ME, Thi Nguyen TN, Tran DHN, Dyson ZA, Keane JA, Pham Thanh D, Mylona E, Nair S, Chattaway M, **Baker S**. The origins of haplotype 58 (H58) *Salmonella enterica* serovar Typhi. *Commun Biol*. 2024 Jun 28;7(1):775. doi: 10.1038/s42003-024-06451-8. PMID: 38942806; PMCID: PMC11213900.

Mylona E, Pham Thanh D, Keane JA, Dongol S, Basnyat B, Dolecek C, Voong Vinh P, Tran Vu Thieu N, Nguyen Thi Nguyen T, Karkey A, **Baker S**. A retrospective investigation of the population structure and geospatial distribution of *Salmonella* Paratyphi A in Kathmandu, Nepal. *PLoS Negl Trop Dis*. 2024 Jun 18;18(6):e0011864. doi: 10.1371/journal.pntd.0011864. Epub ahead of print. PMID: 38889189.

Tran TA, Sridhar S, Reece ST, Lunguya O, Jacobs J, Van Puyvelde S, Marks F, Dougan G, Thomson NR, Nguyen BT, Bao PT, **Baker S**. Combining machine learning with high-content imaging to infer ciprofloxacin susceptibility in isolates of *Salmonella* Typhimurium. *Nat Commun*. 2024 Jun 13;15(1):5074. doi: 10.1038/s41467-024-49433-4. PMID: 38871710.

Qureshi S, Maria N, Chawla T, Iqbal J, Kazi AM, Adnan M, Hotwani A, Rahman N, Sadiq MW, Charles R, **Baker S**, Qamar FN. The frequency and associated factors of typhoid carriage in patients undergoing cholecystectomy for gallbladder disease in Pakistan: A cross-sectional study. *PLoS Negl Trop Dis*. 2024 Jun 12;18(6):e0011775. doi: 10.1371/journal.pntd.0011775. PMID: 38865361.

Nguyen Q, Nguyen YTP, Ha TT, Tran DTN, Voong PV, Chau V, Nguyen PLN, Le NTQ, Nguyen LPH, Nguyen TTN, Trinh TV, Carrique-Mas JJ, **Baker S**, Thwaites G, Rabaa MA, Choisy M, Chung HT, Pham DT. Genomic insights unveil the plasmid transfer mechanism and epidemiology of hypervirulent *Klebsiella pneumoniae* in Vietnam. *Nat Commun*. 2024 May 17;15(1):4187. doi: 10.1038/s41467-024-48206-3. PMID: 38760381.

Clark JA, Gouliouris T, Conway Morris A, Curran MD, White D, Daubney E, Navapurkar V, **Baker S**, Pathan N. Enhanced diagnosis of severe bacterial and fungal respiratory infection in children using a rapid syndromic array-case report. *Transl Pediatr*. 2024 Apr 30;13(4):697-703. doi: 10.21037/tp-23-525. Epub 2024 Apr 11. PMID: 38715674; PMCID: PMC11071030.

Le SH, Nguyen Ngoc Minh C, de Sessions PF, Jie S, Tran Thi Hong C, Thwaites GE, **Baker S**, Pham DT, Chung The H. The impact of antibiotics on the gut microbiota of children recovering from watery diarrhoea. *NPJ Antimicrob Resist*. 2024;2(1):12. doi: 10.1038/s44259-024-00030-x. Epub 2024 Apr 22. PMID: 38686335; PMCID: PMC11057199.

**GBD 2021 Lower Respiratory Infections and Antimicrobial Resistance Collaborators.** Global, regional, and national incidence and mortality burden of non-COVID-19 lower respiratory infections and aetiologies, 1990-2021: a systematic analysis from the Global Burden of Disease Study 2021. Lancet Infect Dis. 2024 Apr 15:S1473-3099(24)00176-2. doi: 10.1016/S1473-3099(24)00176-2. PMID: 38636536.

Huynh TTN, Hofstra N, Nguyen HQ, **Baker S**, Pathirana A, Corzo Perez GA, Zevenbergen C. Estimating disease burden of rotavirus in floodwater through traffic in the urban areas: A case study of Can Tho city, Vietnam. Journal of Flood Risk Management. 2024. 17(1), e12955. <https://doi.org/10.1111/jfr3.12955>

Marks F, Im J, Park SE, Pak GD, Jeon HJ, Wandji Nana LR, Phoba MF, Mbuyi-Kalonji L, Mogeni OD, Yeshitela B, Panzner U, Cruz Espinoza LM, Beyene T, Owusu-Ansah M, Twumasi-Ankrah S, Yeshambaw M, Alemu A, Adewusi OJ, Adekanmbi O, Higginson E, Adepoju A, Agbi S, Cakpo EG, Ogunleye VO, Tunda GN, Ikhimiukor OO, Mbuyamba J, Toy T, Agyapong FO, Osei I, Amuasi J, Razafindrabe TJL, Raminosoa TM, Nyirenda G, Randriamampionona N, Seo HW, Seo H, Siribie M, Carey ME, Owusu M, Meyer CG, Rakotozandrindrainy N, Sarpong N, Razafindrakalia M, Razafimanantsoa R, Ouedraogo M, Kim YJ, Lee J, Zellweger RM, Kang SSY, Park JY, Crump JA, Hardy L, Jacobs J, Garrett DO, Andrews JR, Poudyal N, Kim DR, Clemens JD, **Baker S**, Kim JH, Dougan G, Sugimoto JD, Van Puyvelde S, Kehinde A, Popoola OA, Mogasale V, Breiman RF, MacWright WR, Aseffa A, Tadesse BT, Haselbeck A, Adu-Sarkodie Y, Teferi M, Bassiahi AS, Okeke IN, Lunguya-Metila O, Owusu-Dabo E, Rakotozandrindrainy R. Incidence of typhoid fever in Burkina Faso, Democratic Republic of the Congo, Ethiopia, Ghana, Madagascar, and Nigeria (the Severe Typhoid in Africa programme): a population-based study. Lancet Glob Health. 2024 Apr;12(4):e599-e610. doi: 10.1016/S2214-109X(24)00007-X. PMID: 38485427.

Madhav A, Bousfield R, Pereira-Dias J, Cormie C, Forrest S, Keane J, Kermack L, Higginson E, Dougan G, Spiers H, Massey D, Sharkey L, Rutter C, Woodward J, Russell N, Amin I, Butler A, Atkinson K, Dymond T, Bartholdson Scott J, **Baker S**, Gkrania-Klotsas E. A metagenomic prospective cohort study on gut microbiome composition and clinical infection in small bowel transplantation. Gut Microbes. 2024 Jan-Dec;16(1):2323232. doi: 10.1080/19490976.2024.2323232. Epub 2024 Mar 4. PMID: 38439546.

Jones NK, Tom B, Simillis C, Bennet J, Gourgiotis S, Griffin J, Blaza H, Nasser S, **Baker S**, Gouliouris T. Impact of penicillin allergy labels on surgical site infections in a large UK cohort of gastrointestinal surgery patients. JAC Antimicrob Resist. 2024 Feb 16;6(1):dlae022. doi: 10.1093/jacamr/dlae022. PMID: 38372001; PMCID: PMC10873540.

**GRAM Typhoid Collaborators.** Estimating the subnational prevalence of antimicrobial resistant *Salmonella enterica* serovars Typhi and Paratyphi A infections in 75 endemic countries, 1990-2019: a modelling study. Lancet Glob Health. 2024 Mar;12(3):e406-e418. doi: 10.1016/S2214-109X(23)00585-5. PMID: 38365414.

Kean IRL, Clark JA, Zhang Z, Daubney E, White D, Ferrando-Vivas P, Milla G, Cuthbertson B, Pappachan J, Klein N, Mouncey P, Rowan K, Myburgh J, Gouliouris T, **Baker S**, Parkhill J, Pathan N, Arctic Research Team. Short-duration selective

decontamination of the digestive tract infection control does not contribute to increased antimicrobial resistance burden in a pilot cluster randomised trial (the ARCTIC Study). Gut. 2024 Jan 22:gutjnl-2023-330851. doi:10.1136/gutjnl-2023-330851. Epub ahead of print. PMID: 38253478.

**Baker S.** Bacterial Enteropathogens. Mason's Tropical Disease, 24<sup>th</sup> edition. 365-380. 2024. Elsevier.

**Baker S.** *Salmonella* Infections. Mason's Tropical Disease, 24<sup>th</sup> edition. 381-391. 2024. Elsevier.

Clark JA, Curran MD, Gouliouris T, Conway Morris A, Bousfield R, Navapurkar V, Kean IRL, Daubney E, White D, **Baker S.** Rapid Detection of Antimicrobial Resistance Genes in Critically Ill Children Using a Custom TaqMan Array Card. *Antibiotics* 2023, 12, 1701.

Huynh TTN, Hofstra N, Nguyen HQ, **Baker S.**, Pathirana A, Corzo Perez GA, Zevenbergen C. Estimating disease burden of rotavirus in floodwater through traffic in the urban areas: A case study of Can Tho city, Vietnam. *J Flood Risk Management*. 2023. e12955

Martin LB, Khanam F, Qadri F, Khalil I, Sikorski MJ, **Baker S.** Vaccine value profile for *Salmonella enterica* serovar Paratyphi A. *Vaccine*. 2023 Nov 3;41 Suppl 2:S114-S133. doi: 10.1016/j.vaccine.2023.01.054. Epub 2023 Oct 6. PMID: 37951691.

Jones NK, Thu TNH, de Alwis R, Thompson C, Tuyen HT, Nhu TDH, Phat VV, Trung PD, Lam PK, Tien BTT, Tuyet HTD, Vi LL, Van Vinh Chau N, Le Thi Quynh N, **Baker S.** The seroincidence of childhood *Shigella sonnei* infection in Ho Chi Minh City, Vietnam. *PLoS Negl Trop Dis*. 2023 Oct 30;17(10):e0011728. doi: 10.1371/journal.pntd.0011728. Epub ahead of print. PMID: 37903147.

Hamilton WL, Coscione S, Maes M, Warne B, Pike LJ, Khokhar FA, Blane B, Brown NM, Gouliouris T, Dougan G, Török ME, **Baker S.** The clinical, genomic, and microbiological profile of invasive multi-drug resistant *Escherichia coli* in a major teaching hospital in the United Kingdom. *Microb Genom*. 2023 Oct;9(10). doi: 10.1099/mgen.0.001122. PMID: 37902454.

Walker J, Chaguza C, Grubaugh ND, Carey M, **Baker S.**, Khan K, Bogoch II, Pitzer VE. Assessing the global risk of typhoid outbreaks caused by extensively drug resistant *Salmonella Typhi*. *Nat Commun*. 2023 Oct 16;14(1):6502. doi: 10.1038/s41467-023-42353-9. PMID: 37845201; PMCID: PMC10579367.

Feng Y, Pan H, Zheng B, Li F, Teng L, Jiang Z, Feng M, Zhou X, Peng X, Xu X, Wang H, Wu B, Xiao Y, **Baker S.**, Zhao G, Yue M. An integrated nationwide genomics study reveals transmission modes of typhoid fever in China. *mBio*. 2023 Oct 6:e0133323. doi: 10.1128/mbio.01333-23. PMID: 37800953.

Li L, Short FL, Hassan KA, Naidu V, Pokhrel A, Nagy SS, Prity FT, Shah BS, Afrin N, **Baker S.**, Parkhill J, Cain AK, Paulsen IT. Systematic analyses identify modes of action of ten clinically relevant biocides and antibiotic antagonism in *Acinetobacter*

baumannii. Nat Microbiol. 2023 Oct 9. doi: 10.1038/s41564-023-01474-z. PMID: 37814070.

Chung The H, Pham P, Ha Thanh T, Phuong LVK, Yen NP, Le SH, Vu Thuy D, Chau TTH, Le Phuc H, Ngoc NM, Vi LL, Mather AE, Thwaites GE, Thomson NR, **Baker S**, Pham DT. Multidrug resistance plasmids underlie clonal expansions and international spread of *Salmonella enterica* serotype 1,4,[5],12:i:- ST34 in Southeast Asia. Commun Biol. 2023 Oct 3;6(1):1007. doi: 10.1038/s42003-023-05365-1. PMID: 37789208.

Carey ME, Dyson ZA, Ingle DJ, Amir A, Aworh MK, Chattaway MA, Chew KL, Crump JA, Feasey NA, Howden BP, Keddy KH, Maes M, Parry CM, Van Puyvelde S, Webb HE, Afolayan AO, Alexander AP, Anandan S, Andrews JR, Ashton PM, Basnyat B, Bavdekar A, Bogoch II, Clemens JD, da Silva KE, De A, de Ligt J, Diaz Guevara PL, Dolecek C, Dutta S, Ehlers MM, Francois Watkins L, Garrett DO, Godbole G, Gordon MA, Greenhill AR, Griffin C, Gupta M, Hendriksen RS, Heyderman RS, Hooda Y, Hormazabal JC, Ikhimiukor OO, Iqbal J, Jacob JJ, Jenkins C, Jinka DR, John J, Kang G, Kanteh A, Kapil A, Karkey A, Kariuki S, Kingsley RA, Koshy RM, Lauer AC, Levine MM, Lingegowda RK, Luby SP, Mackenzie GA, Mashe T, Msefula C, Mutreja A, Nagaraj G, Nagaraj S, Nair S, Naseri TK, Nimirota-Brown S, Njamkepo E, Okeke IN, Perumal SPB, Pollard AJ, Pragasam AK, Qadri F, Qamar FN, Rahman SIA, Rambucus SD, Rasko DA, Ray P, Robins-Browne R, Rongsen-Chandola T, Rutanga JP, Saha SK, Saha S, Saigal K, Sajib MSI, Seidman JC, Shakya J, Shamanna V, Shastri J, Shrestha R, Sia S, Sikorski MJ, Singh A, Smith AM, Tagg KA, Tamrakar D, Tanmoy AM, Thomas M, Thomas MS, Thomsen R, Thomson NR, Tupua S, Vaidya K, Valcanis M, Veeraraghavan B, Weill FX, Wright J, Dougan G, Argimón S, Keane JA, Aanensen DM, **Baker S**, Holt KE; Global Typhoid Genomics Consortium Group Authorship. Global diversity and antimicrobial resistance of typhoid fever pathogens: Insights from a meta-analysis of 13,000 *Salmonella Typhi* genomes. Elife. 2023 Sep 12;12:e85867. doi: 10.7554/elife.85867. PMID: 37697804.

Kaza P, Britto XB, Mahindroo J, Singh N, **Baker S**, Nguyen TNT, Mavuduru RS, Mohan B, Taneja N. Extensively-drug resistant (XDR) *Klebsiella pneumoniae* associated with complicated urinary tract infection in Northern India. Jpn J Infect Dis. 2023 Aug 31. doi: 10.7883/yoken.JJID.2023.009. Epub ahead of print. PMID: 37648492.

Torraca V, Brokatzky D, Miles SL, Chong CE, De Silva PM, **Baker S**, Jenkins C, Holt KE, Baker KS, Mostowy S. *Shigella* serotypes associated with carriage in humans establish persistent infection in zebrafish. J Infect Dis. 2023 Aug 9:jiad326. doi: 10.1093/infdis/jiad326. PMID: 37556724.

Fachrul M, Karkey A, Shakya M, Judd LM, Harshegyi T, Sim KS, Tonks S, Dongol S, Shrestha R, Salim A; STRATAA study group; **Baker S**, Pollard AJ, Khor CC, Dolecek C, Basnyat B, Dunstan SJ, Holt KE, Inouye M. Direct inference and control of genetic population structure from RNA sequencing data. Commun Biol. 2023 Aug 2;6(1):804. doi: 10.1038/s42003-023-05171-9. PMID: 37532769.

Nhung NT, Dutta A, Higginson E, Kermack L, Yen NTP, Phu DH, Kiet BT, Choisy M, Geskus RB, **Baker S**, Carrique-Mas J. Impact of antimicrobial use on abundance of antimicrobial resistance genes in chicken flocks in Vietnam. JAC Antimicrob Resist.

2023 Jul 22;5(4):dlad090. doi: 10.1093/jacamr/dlad090. PMID: 37484028; PMCID: PMC10362913.

Clark JA, Conway Morris A, Kanaris C, Inwald D, Butt W, Osowicki J, Schlapbach LJ, Curran MD, White D, Daubney E, Agrawal S, Navapurkar V, Török ME, **Baker S**, Pathan N. A qualitative investigation of paediatric intensive care staff attitudes towards the diagnosis of lower respiratory tract infection in the molecular diagnostics era. *Intensive Care Med Paediatr Neonatal*. 2023;1(1):10. doi: 10.1007/s44253-023-00008-z. Epub 2023 Jul 7. PMID: 37425493; PMCID: PMC10329081.

Mylona E, Hefele L, Tran Vu Thieu N, Trinh Van T, Nguyen Ngoc Minh C, Tran Tuan A, Karkey A, Dongol S, Basnyat B, Voong Vinh P, Ho Ngoc Dan T, Russell P, Charles RC, Parry CM, **Baker S**. The identification of enteric fever-specific antigens for population based serosurveillance. *J Infect Dis*. 2023 Jul 5:jiad242. doi: 10.1093/infdis/jiad242. PMID: 37403670.

Johnston PI, Bogue P, Chirambo AC, Mbewe M, Prakash R, Kandoole-Kabwere V, Lester R, Darton T, **Baker S**, Gordon MA, Meiring JE. Bacterial shedding and serologic responses following an outbreak of *Salmonella Typhi* in an endemic cohort. *BMC Infect Dis*. 2023 Jun 20;23(1):416. doi: 10.1186/s12879-023-08385-8. PMID: 37340341.

Parry CM, Qamar FN, Rijal S, McCann N, **Baker S**, Basnyat B. What Should We Be Recommending for the Treatment of Enteric Fever? *Open Forum Infect Dis*. 2023 Jun 2;10(Suppl 1):S26-S31. doi: 10.1093/ofid/ofad179. PMID: 37274536; PMCID: PMC10236504.

Sapkota J, Roberts T, Basnyat B, **Baker S**, Hampton LM, Dittrich S. Diagnostics for Typhoid Fever: Current Perspectives and Future Outlooks for Product Development and Access. *Open Forum Infect Dis*. 2023 Jun 2;10(Suppl 1):S17-S20. doi: 10.1093/ofid/ofad120. PMID: 37274534; PMCID: PMC10236505.

Carey ME, Dyson ZA, Argimón S, Cerdeira L, Yeats C, Aanensen D, Mboowa G, **Baker S**, Tessema SK, Smith AM, Okeke IN, Holt KE. Unlocking the Potential of Genomic Data to Inform Typhoid Fever Control Policy: Supportive Resources for Genomic Data Generation, Analysis, and Visualization. *Open Forum Infect Dis*. 2023 Jun 2;10(Suppl 1):S38-S46. doi: 10.1093/ofid/ofad044. PMID: 37274533; PMCID: PMC10236510.

Zhu J, Tivony R, Bošković F, Pereira-Dias J, Sandler SE, **Baker S**, Keyser UF. Multiplexed Nanopore-Based Nucleic Acid Sensing and Bacterial Identification Using DNA Dumbbell Nanoswitches. *J Am Chem Soc*. 2023 May 23. doi: 10.1021/jacs.3c01649. Epub ahead of print. PMID: 37220424.

**Baker S**, Scott TA. Antimicrobial-resistant *Shigella*: where do we go next? *Nat Rev Microbiol*. 2023 May 15. doi: 10.1038/s41579-023-00906-1. Epub ahead of print. PMID: 37188805; PMCID: PMC10184058.

Shrestha N, Manandhar S, Maharjan N, Twati D, Dongol S, Basnyat B, **Baker S**, Karkey A. Perspectives of pharmacy employees on an inappropriate use of

antimicrobials in Kathmandu, Nepal. PLoS One. 2023 May 3;18(5):e0285287. doi: 10.1371/journal.pone.0285287. PMID: 37134062.

Toan ND, Darton TC, Huong NHT, Nhat LTH, Nguyen TNT, Tuyen HT, Thinh LQ, Mau NK, Tam PTT, Phuong CN, Nhan LNT, Minh NNQ, Xuan NM, Thuong TC, Hung NT, Boinett C, Reece S, Karkey A, Day JN, **Baker S**. Clinical and laboratory factors associated with neonatal sepsis mortality at a major Vietnamese children's hospital. PLOS Glob Public Health. 2022 Sep 2;2(9):e0000875. doi: 10.1371/journal.pgph.0000875. PMID: 36962870; PMCID: PMC10021837.

Higham SL, **Baker S**, Flight KE, Krishna A, Kellam P, Reece ST, Tregoning JS. Intranasal immunisation with Outer Membrane Vesicles (OMV) protects against airway colonisation and systemic infection with *Acinetobacter baumannii*. J Infect. 2023 Feb 27:S0163-4453(23)00122-6. doi: 10.1016/j.jinf.2023.02.035. Epub ahead of print. PMID: 36858180.

Maes M, Khokhar F, Wilkinson SAJ, Smith AD, Kovalenko G, Dougan G, Quick J, Loman NJ, **Baker S**, Curran MD, Skittrall JP, Houldcroft CJ. Multiplex MinION sequencing suggests enteric adenovirus F41 genetic diversity comparable to pre-COVID-19 era. Microb Genom. 2023 Jan;9(1). doi: 10.1099/mgen.0.000920. PMID: 36748435.

Pereira-Dias J, Taneja N, Mahindroo J, Maheshwari G, Patel PJ, Thu TNH, Keane J, Dyson ZA, **Baker S**, Mylona E. The genomic characterization of *Salmonella Paratyphi A* from an outbreak of enteric fever in Vadodara, India. Microb Genom. 2023 Jan;9(1). doi: 10.1099/mgen.0.000914. PMID: 36748526.

Bošković F, Zhu J, Tivony R, Ohmann A, Chen K, Alawami MF, Đorđević M, Ermann N, Pereira-Dias J, Fairhead M, Howarth M, **Baker S**, Keyser UF. Simultaneous identification of viruses and viral variants with programmable DNA nanobait. Nat Nanotechnol. 2023 Jan 16. doi: 10.1038/s41565-022-01287-x. Epub ahead of print. PMID: 36646828.

Clark JA, Conway Morris A, Curran MD, White D, Daubney E, Kean IRL, Navapurkar V, Bartholdson Scott J, Maes M, Bousfield R, Török ME, Inwald D, Zhang Z, Agrawal S, Kanaris C, Khokhar F, Gouliouris T, **Baker S**, Pathan N. The rapid detection of respiratory pathogens in critically ill children. Crit Care. 2023 Jan 10;27(1):11. doi: 10.1186/s13054-023-04303-1. PMID: 36627688; PMCID: PMC9831374.

Tanmoy AM, Hooda Y, Sajib MSI, da Silva KE, Iqbal J, Qamar FN, Luby SP, Dougan G, Dyson ZA, **Baker S**, Garrett DO, Andrews JR, Saha SK, Saha S. Paratype: a genotyping tool for *Salmonella Paratyphi A* reveals its global genomic diversity. Nat Commun. 2022 Dec 23;13(1):7912. doi: 10.1038/s41467-022-35587-6. PMID: 36564386; PMCID: PMC9782287.

Brevini T, Maes M, Webb GJ, John BV, Fuchs CD, Buescher G, Wang L, Griffiths C, Brown ML, Scott WE 3rd, Pereyra-Gerber P, Gelson WTH, Brown S, Dillon S, Muraro D, Sharp J, Neary M, Box H, Tatham L, Stewart J, Curley P, Pertinez H, Forrest S, Mlcochova P, Varankar SS, Darvish-Damavandi M, Mulcahy VL, Kuc RE, Williams TL, Heslop JA, Rossetti D, Tysoe OC, Galanakis V, Vila-Gonzalez M, Crozier TWM,

Bargehr J, Sinha S, Upponi SS, Fear C, Swift L, Saeb-Parsy K, Davies SE, Wester A, Hagström H, Melum E, Clements D, Humphreys P, Herriott J, Kijak E, Cox H, Bramwell C, Valentijn A, Illingworth CJR; UK-PBC research consortium, Dahman B, Bastaich DR, Ferreira RD, Marjot T, Barnes E, Moon AM, Barritt AS 4th, Gupta RK, **Baker S**, Davenport AP, Corbett G, Gorgoulis VG, Buczacki SJA, Lee JH, Matheson NJ, Trauner M, Fisher AJ, Gibbs P, Butler AJ, Watson CJE, Mells GF, Dougan G, Owen A, Lohse AW, Vallier L, Sampaziotis F. FXR inhibition may protect from SARS-CoV-2 infection by reducing ACE2. *Nature*. 2022 Dec 5. doi: 10.1038/s41586-022-05594-0. Epub ahead of print. PMID: 36470304.

Qiu S, Liu K, Yang C, Xiang Y, Min K, Zhu K, Liu H, Du X, Yang M, Wang L, Sun Y, Zhou H, Mahe M, Zhao J, Li S, Yu D, Hawkey J, Holt KE, **Baker S**, Yang J, Xu X, Song H. A *Shigella sonnei* clone with extensive drug resistance associated with waterborne outbreaks in China. *Nat Commun*. 2022 Nov 30;13(1):7365. doi: 10.1038/s41467-022-35136-1. PMID: 36450777.

Hurler L, Toonen EJM, Kajdácsi E, van Bree B, Brandwijk RJMGE, de Bruin W, Lyons PA, Bergamaschi L; Cambridge Institute of Therapeutic Immunology and Infectious Disease-National Institute of Health Research (**CITIID-NIHR COVID BioResource Collaboration**, Sinkovits G, Cervenak L, Würzner R, Prohászka Z. Distinction of early complement classical and lectin pathway activation via quantification of C1s/C1-INH and MASP-1/C1-INH complexes using novel ELISAs. *Front Immunol*. 2022 Nov 4;13:1039765. doi: 10.3389/fimmu.2022.1039765. PMID: 36420270; PMCID: PMC9677118.

Cooper DJ, Lear S, Sithole N, Shaw A, Stark H, Ferris M; CITIID-NIHR BioResource COVID-19 collaboration consortium, Bradley J, Maxwell P, Goodfellow I, Weekes MP, Seaman S, **Baker S**. Demographic, behavioural and occupational risk factors associated with SARS-CoV-2 infection in UK healthcare workers: a retrospective observational study. *BMJ Open*. 2022 Nov 7;12(11):e063159. doi: 10.1136/bmjopen-2022-063159. PMID: 36343994.

Tierney AL, Alali WM, Scott T, Rees-Unwin KS; **CITIID-NIHR BioResource COVID-19 Collaboration**, Clark SJ, Unwin RD. Levels of soluble complement regulators predict severity of COVID-19 symptoms. *Front Immunol*. 2022 Oct 18;13:1032331. doi: 10.3389/fimmu.2022.1032331. PMID: 36330526; PMCID: PMC9624227.

Tran HNH, Thu TNH, Nguyen PH, Vo CN, Doan KV, Nguyen Ngoc Minh C, Nguyen NT, Ta VND, Vu KA, Hua TD, Nguyen TNT, Van TT, Pham Duc T, Duong BL, Nguyen PM, Hoang VC, Pham DT, Thwaites GE, Hall LJ, Slade DJ, **Baker S**, Tran VH, Chung The H. Tumour microbiomes and *Fusobacterium* genomics in Vietnamese colorectal cancer patients. *NPJ Biofilms Microbiomes*. 2022 Oct 29;8(1):87. doi: 10.1038/s41522-022-00351-7. PMID: 36307484.

Nguyen Thi Nguyen T, Parry CM, Campbell JI, Vinh PV, Kneen R, **Baker S**. Endemic erythromycin resistant *Corynebacterium diphtheriae* in Vietnam in the 1990s. *Microb Genom*. 2022 Oct;8(10). doi: 10.1099/mgen.0.000861. PMID: 36259695.

Brindle HE, Nadjm B, Choisy M, Christley R, Griffiths M, **Baker S**, Bryant JE, Campbell JI, Nguyen VVC, Nguyen TND, Vu TTH, Nguyen VH, Hoang BL, Le XL, Pham HM, Ta

TDN, Ho DTN, Tran TN, Nguyen THN, Tran MP, Pham THP, Le VT, Nguyen DT, Hau TTT, Nguyen NV, Wertheim HFL, Thwaites GE, van Doorn HR; VIZIONS Consortium. Aetiology and Potential Animal Exposure in Central Nervous System Infections in Vietnam. *Ecohealth*. 2022 Oct 13:1–12. doi: 10.1007/s10393-022-01611-w. Epub ahead of print. PMID: 36227390; PMCID: PMC9558024.

Panzner U, Mogeni OD, Adu-Sarkodie Y, Toy T, Jeon HJ, Pak GD, Park SE, Enuameh Y, Owusu-Dabo E, Van Tan T, Aseffa A, Teferi M, Yeshitela B, **Baker S**, Rakotozandrindrainy R, Marks F. Detection of *Salmonella Typhi* nucleic acid by RT-PCR and anti-HlyE, -CdtB, -PilL, and -Vi IgM by ELISA at sites in Ghana, Madagascar and Ethiopia. *BMC Infect Dis*. 2022 Oct 2;22(1):766. doi: 10.1186/s12879-022-07726-3. PMID: 36184614.

Cooper DJ, Lear S, Watson L, Shaw A, Ferris M, Doffinger R, Bousfield R, Sharrocks K, Weekes MP, Warne B, Sparkes D, Jones NK, Rivett L, Routledge M, Chaudhry A, Dempsey K, Matson M, Lakha A, Gathercole G, O'Connor O, Wilson E, Shahzad O, Toms K, Thompson R, Halsall I, Halsall D, Houghton S, Papadia S, Kingston N, Stirrups KE, Graves B, Townsend P, Walker N, Stark H; CITIID-NIHR BioResource COVID-19 Collaboration, De Angelis D, Seaman S, Dougan G, Bradley JR, Török ME, Goodfellow I, **Baker S**. A prospective study of risk factors associated with seroprevalence of SARS-CoV-2 antibodies in healthcare workers at a large UK teaching hospital. *J Infect*. 2022 Sep 1:S0163-4453(22)00514-X. doi: 10.1016/j.jinf.2022.08.030. Epub ahead of print. PMID: 36058413.

Meng B, Datir R, Choi J; **CITIID-NIHR Bioresource COVID-19 Collaboration**, Bradley JR, Smith KGC, Lee JH, Gupta RK. SARS-CoV-2 spike N-terminal domain modulates TMPRSS2-dependent viral entry and fusogenicity. *Cell Rep*. 2022 Aug 3:111220. doi: 10.1016/j.celrep.2022.111220. Epub ahead of print. PMID: 35963244.

Maes M, Sikorski MJ, Carey ME, Higginson EE, Dyson ZA, Fernandez A, Araya P, Tenant SM, **Baker S**, Lagos R, Hormazábal JC, Levine MM, Dougan G. Whole genome sequence analysis of *Salmonella Typhi* provides evidence of phylogenetic linkage between cases of typhoid fever in Santiago, Chile in the 1980s and 2010–2016. *PLoS Negl Trop Dis*. 2022 Jun 29;16(6):e0010178. doi: 10.1371/journal.pntd.0010178. PMID: 35767580.

da Silva KE, Tanmoy AM, Pragasam AK, Iqbal J, Sajib MSI, Mutreja A, Veeraraghavan B, Tamrakar D, Qamar FN, Dougan G, Bogoch I, Seidman JC, Shakya J, Vaidya K, Carey ME, Shrestha R, Irfan S, **Baker S**, Luby SP, Cao Y, Dyson ZA, Garrett DO, John J, Kang G, Hooda Y, Saha SK, Saha S, Andrews JR. The international and intercontinental spread and expansion of antimicrobial-resistant *Salmonella Typhi*: a genomic epidemiology study. *Lancet Microbe*. 2022 Jun 21:S2666-5247(22)00093-3. doi: 10.1016/S2666-5247(22)00093-3. Epub ahead of print. PMID: 35750070.

Kean IRL, Wagner J, Wijeyesekera A, De Goffau M, Thurston S, Clark JA, White DK, Ridout J, Agrawal S, Kayani R, O'Donnell R, Ramnarayan P, Peters MJ, Klein N, Holmes E, Parkhill J, **Baker S**, Pathan N. Profiling gut microbiota and bile acid metabolism in critically ill children. *Sci Rep*. 2022 Jun 21;12(1):10432. doi: 10.1038/s41598-022-13640-0. PMID: 35729169.

Nhung NT, Yen NTP, Dung NTT, Nhan NTM, Phu DH, Kiet BT, Thwaites G, Geskus RB, **Baker S**, Carrique-Mas J, Choisy M. Antimicrobial resistance in commensal Escherichia colifrom humans and chickens in the Mekong Delta of Vietnam is driven by antimicrobial usage and potential cross-species transmission. *JAC Antimicrob Resist.* 2022 May 27;4(3):dlac054. doi: 10.1093/jacamr/dlac054. PMID: 35663829; PMCID: PMC9154321.

Manandhar S, Nguyen Q, Nguyen Thi Nguyen T, Pham DT, Rabaa MA, Dongol S, Basnyat B, Dixit SM, **Baker S**, Karkey A. Genomic epidemiology, antimicrobial resistance and virulence factors of Enterobacter cloacae complex causing potential community-onset bloodstream infections in a tertiary care hospital of Nepal. *JAC Antimicrob Resist.* 2022 May 30;4(3):dlac050. doi: 10.1093/jacamr/dlac050. PMID: 35663828; PMCID: PMC9155248.

Smith RM, Cooper DJ, Doffinger R, Stacey H, Al-Mohammad A, Goodfellow I, **Baker S**, Lear S, Hosmilo M, Pritchard N, Torpey N, Jayne D, Yiu V, Chalisey A, Lee J, Vilnar E, Cheung CK, Jones RB. SARS-CoV-2 vaccine responses in renal patient populations. *BMC Nephrol.* 2022 May 31;23(1):199. doi: 10.1186/s12882-022-02792-w. PMID: 35641961.

Pfavayi LT, Burchmore R, Sibanda EN, **Baker S**, Woolhouse M, Mduluza T, Mutapi F. The Identification and Characterization of Immunoreactive Fungal Proteins Recognized by Sera from Zimbabweans Sensitized to Fungi. *Int Arch Allergy Immunol.* 2022 May 18:1-10. doi: 10.1159/000524771. PMID: 35584611.

Shankar C, Vasudevan K, Jacob JJ, **Baker S**, Isaac BJ, Neeravi AR, Sethuvel DPM, George B, Veeraraghavan B. Hybrid Plasmids Encoding Antimicrobial Resistance and Virulence Traits Among Hypervirulent *Klebsiella pneumoniae* ST2096 in India. *Front Cell Infect Microbiol.* 2022 Apr 27;12:875116. doi: 10.3389/fcimb.2022.875116. PMID: 35573787; PMCID: PMC9094440.

Bloomfield S, Duong VT, Tuyen HT, Campbell JI, Thomson NR, Parkhill J, Le Phuc H, Chau TTH, Maskell DJ, Perron GG, Ngoc NM, Vi LL, Adriaenssens EM, **Baker S**, Mather AE. Mobility of antimicrobial resistance across serovars and disease presentations in non-typhoidal *Salmonella* from animals and humans in Vietnam. *Microb Genom.* 2022 May;8(5). doi: 10.1099/mgen.0.000798. PMID: 35511231.

Manandhar S, Nguyen Q, Pham DT, Amatya P, Rabaa M, Dongol S, Basnyat B, Dixit SM, **Baker S**, Karkey A. A fatal outbreak of neonatal sepsis caused by mcr-10 carrying *Enterobacter kobei* in a tertiary care hospital in Nepal. *J Hosp Infect.* 2022 Apr 20:S0195-6701(22)00107-4. doi: 10.1016/j.jhin.2022.03.015. PMID: 35460799.

Fernández Alvaro E, Voong Vinh P, de Cozar C, Wille D, Urones B, Cortés A, Price A, Tran Do Hoang N, Ha Thanh T, McCloskey M, Shaheen S, Dayao D, de Mercado J, Castañeda P, García-Perez A, Singa B, Pavlinac P, Walson J, Martínez- Martínez MS, Arnold SLM, Saul T, Ballell L, **Baker S**. The repurposing of Tebipenem pivoxil as alternative therapy for severe gastrointestinal infections caused by extensively drug resistant *Shigellaspp.* *eLife.* 2022 Mar 15;11:e69798. doi: 10.7554/eLife.69798. PMID: 35289746.

Clark J, White D, Daubney E, Curran M, Bousfield R, Gouliouris T, Powell E, Palmer A, Agrawal S, Inwald D, Kean I, Török ME, **Baker S**, Pathan N. Low diagnostic yield and time to diagnostic confirmation results in prolonged use of antimicrobials in critically ill children. *Wellcome Open Res.* 2021 May 18;6:119. doi: 10.12688/wellcomeopenres.16848.1. PMID: 35299710; PMCID: PMC8902261.

Du P, Liu C, Fan S, **Baker S**, Guo J. The Role of Plasmid and Resistance Gene Acquisition in the Emergence of ST23 Multi-Drug Resistant, Hypervirulent Klebsiella pneumoniae. *Microbiol Spectr.* 2022 Mar 17:e0192921. doi: 10.1128/spectrum.01929-21. Epub ahead of print. PMID: 35297657.

Waddington C, Carey ME, Boinett CJ, Higginson E, Veeraraghavan B, **Baker S**. Exploiting genomics to mitigate the public health impact of antimicrobial resistance. *Genome Med.* 2022 Feb 16;14(1):15. doi: 10.1186/s13073-022-01020-2. PMID: 35172877.

Illingworth CJR, Hamilton WL, Jackson C, Warne B, Popay A, Meredith L, Hosmillo M, Jahun A, Fieldman T, Routledge M, Houldcroft CJ, Caller L, Caddy S, Yakovleva A, Hall G, Khokhar FA, Feltwell T, Pinckert ML, Georgana I, Chaudhry Y, Curran M, Parmar S, Sparkes D, Rivett L, Jones NK, Sridhar S, Forrest S, Dymond T, Grainger K, Workman C, Gkrania-Klotsas E, Brown NM, Weekes MP, **Baker S**, Peacock SJ, Gouliouris T, Goodfellow I, De Angelis D, Török ME. A2B-COVID: A tool for rapidly evaluating potential SARS-CoV-2 transmission events. *Mol Biol Evol.* 2022 Feb 2:msac025. doi: 10.1093/molbev/msac025. Epub ahead of print. PMID: 35106603.

Meng B, Abdullahi A, Ferreira IATM, Goonawardane N, Saito A, Kimura I, Yamasoba D, Gerber PP, Fatihi S, Rathore S, Zepeda SK, Papa G, Kemp SA, Ikeda T, Toyoda M, Tan TS, Kuramochi J, Mitsunaga S, Ueno T, Shirakawa K, Takaori-Kondo A, Brevini T, Mallery DL, Charles OJ; **CITIID-NIHR BioResource COVID-Collaboration**; Genotype to Phenotype Japan (GP-Japan) Consortium members; Ecuador-COVID19 Consortium, Bowen JE, Joshi A, Walls AC, Jackson L, Martin D, Smith KGC, Bradley J, Briggs JAG, Choi J, Madissoon E, Meyer K, Mlcochova P, Ceron-Gutierrez L, Doffinger R, Teichmann SA, Fisher AJ, Pizzuto MS, de Marco A, Corti D, Hosmillo M, Lee JH, James LC, Thukral L, Veesler D, Sigal A, Sampaziotis F, Goodfellow IG, Matheson NJ, Sato K, Gupta RK. Altered TMPRSS2 usage by SARS-CoV-2 Omicron impacts tropism and fusogenicity. *Nature.* 2022 Feb 1. doi: 10.1038/s41586-022-04474-x. Epub ahead of print. PMID: 35104837.

Giri A, Karkey A, Dongol S, Arjyal A, Maharjan A, Veeraraghavan B, Paudyal B, Dolecek C, Gajurel D, Phuong DNT, Thanh DP, Qamar F, Kang G, Hien HV, John J, Lawson K, Wolbers M, Hossain MS, Sharifuzzaman M, Luangasanatip N, Maharjan N, Olliaro P, Rupali P, Shakya R, Shakoor S, Rijal S, Qureshi S, **Baker S**, Joshi S, Ahmed T, Darton T, Bao TN, Lubell Y, Kestelyn E, Thwaites G, Parry CM, Basnyat B. Azithromycin and cefixime combination versus azithromycin alone for the outpatient treatment of clinically suspected or confirmed uncomplicated typhoid fever in South Asia: a randomised controlled trial protocol. *Wellcome Open Res.* 2021 Aug 11;6:207. doi: 10.12688/wellcomeopenres.16801.1. PMID: 35097222; PMCID: PMC8772527.

Antimicrobial Resistance Collaborators. Global burden of bacterial antimicrobial resistance in 2019: a systematic analysis. Lancet. 2022 Jan 18:S0140-6736(21)02724-0. doi: 10.1016/S0140-6736(21)02724-0. PMID: 35065702.

Pfavayi LT, Sibanda EN, **Baker S**, Woolhouse M, Mduluza T, Mutapi F. Fungal allergic sensitisation in young rural Zimbabwean children: Gut mycobiome and seroreactivity characteristics. Curr Res Microb Sci. 2021 Nov 16;2:100082. doi: 10.1016/j.crmicr.2021.100082. PMID: 35028627; PMCID: PMC8714770.

Le NTH, Ho NT, Grenfell B, **Baker S**, Geskus RB. Biphasic pattern in the effect of severe measles infection; the difference between additive and multiplicative scale. BMC Infect Dis. 2021 Dec 14;21(1):1249. doi: 10.1186/s12879-021-06930-x. PMID: 34906096.

Mai ST, Bodhidatta L, Turner P, Wangchuk S, Ha Thanh T, Voong Vinh P, Pham DT, Rabaa MA, Thwaites GE, Thomson NR, **Baker S**, Chung The H. The evolutionary history of *Shigella flexneri* serotype 6 in Asia. Microb Genom. 2021 Dec;7(12). doi: 10.1099/mgen.0.000736. PMID: 34904947.

Nguyen Q, Nguyen TTN, Pham P, Chau V, Nguyen LPH, Nguyen TD, Ha TT, Le NTQ, Vu DT, **Baker S**, Thwaites GE, Rabaa MA, Pham DT. Genomic insights into the circulation of pandemic fluoroquinolone-resistant extra-intestinal pathogenic Escherichia coliST1193 in Vietnam. Microb Genom. 2021 Dec;7(12). doi: 10.1099/mgen.0.000733. PMID: 34904942.

Hefele L, Black AP, Van Tan T, Tri Minh N, Duc Hoang N, Virachith S, Muller CP, Hübschen JM, Russell P, Bartholdson Scott J, Ngoc Minh CN, Thieu Nga TV, **Baker S**. An age-stratified serosurvey against purified *Salmonella enterica* serovar Typhi antigens in the Lao People's Democratic Republic. PLoS Negl Trop Dis. 2021 Dec 13;15(12):e0010017. doi: 10.1371/journal.pntd.0010017. PMID: 34898620.

Clark JA, Kean IRL, Curran MD, Khokhar F, White D, Daubney E, Conway Morris A, Navapurkar V, Bartholdson Scott J, Maes M, Bousfield R, Gouliouris T, Agrawal S, Inwald D, Zhang Z, Török ME, **Baker S**, Pathan N. Rapid Assay for Sick Children with Acute Lung infection Study (RASCALS): diagnostic cohort study protocol. BMJ Open. 2021 Nov 29;11(11):e056197. doi: 10.1136/bmjopen-2021-056197. PMID: 34845080.

Meiring JE, Shakya M, Khanam F, Voysey M, Phillips MT, Tonks S, Thindwa D, Darton TC, Dongol S, Karkey A, Zaman K, **Baker S**, Dolecek C, Dunstan SJ, Dougan G, Holt KE, Heyderman RS, Qadri F, Pitzer VE, Basnyat B, Gordon MA, Clemens J, Pollard AJ; STRATAA Study Group. Burden of enteric fever at three urban sites in Africa and Asia: a multicentre population-based study. Lancet Glob Health. 2021 Dec;9(12):e1688-e1696. doi: 10.1016/S2214-109X(21)00370-3. PMID: 34798028.

Dongol S, Kayastha G, Maharjan N, Pyatha S, K C R, Thwaites L, Basnyat B, **Baker S**, Karkey A. Epidemiology, etiology, and diagnosis of health care acquired pneumonia including ventilator-associated pneumonia in Nepal. PLoS One. 2021 Nov 17;16(11):e0259634. doi: 10.1371/journal.pone.0259634. PMID: 34788314.

Mäklin T, Kallonen T, David S, Boinett CJ, Pascoe B, Méric G, Aanensen DM, Feil EJ, **Baker S**, Parkhill J, Sheppard SK, Corander J, Honkela A. High-resolution sweep metagenomics using fast probabilistic inference. *Wellcome Open Res.* 2021 Oct 8;5:14. doi: 10.12688/wellcomeopenres.15639.2. PMID: 34746439; PMCID: PMC8543175.

Conway Morris A, Sharrocks K, Bousfield R, Kermack L, Maes M, Higginson E, Forrest S, Pereira-Dias J, Cormie C, Old T, Brooks S, Hamed I, Koenig A, Turner A, White P, Floto RA, Dougan G, Gkrania-Klotsas E, Gouliouris T, **Baker S**, Navapurkar V. The removal of airborne SARS-CoV-2 and other microbial bioaerosols by air filtration on COVID-19 surge units. *Clin Infect Dis.* 2021 Oct 30:ciab933. doi: 10.1093/cid/ciab933. Epub ahead of print. PMID: 34718446.

Shakya M, Voysey M, Theiss-Nyland K, Colin-Jones R, Pant D, Adhikari A, Tonks S, Mujadidi YF, O'Reilly P, Mazur O, Kelly S, Liu X, Maharjan A, Dahal A, Haque N, Pradhan A, Shrestha S, Joshi M, Smith N, Hill J, Clarke J, Stockdale L, Jones E, Lubinda T, Bajracharya B, Dongol S, Karkey A, **Baker S**, Dougan G, Pitzer VE, Neuzil KM, Shrestha S, Basnyat B, Pollard AJ; TyVAC Nepal Team. Efficacy of typhoid conjugate vaccine in Nepal: final results of a phase 3, randomised, controlled trial. *Lancet Glob Health.* 2021 Nov;9(11):e1561-e1568. doi: 10.1016/S2214-109X(21)00346-6. PMID: 34678198.

Rahman SIA, Nguyen TNT, Khanam F, Thomson NR, Dyson ZA, Taylor-Brown A, Chowdhury EK, Dougan G, **Baker S**, Qadri F. Genetic diversity of *Salmonella Paratyphi A* isolated from enteric fever patients in Bangladesh from 2008 to 2018. *PLoS Negl Trop Dis.* 2021 Oct 14;15(10):e0009748. doi: 10.1371/journal.pntd.0009748. PMID: 34648506.

Argimón S, Nagaraj G, Shamanna V, Darmavaram S, Vasanth AK, Prasanna A, Poojary A, Bari AK, Underwood A, Kekre M, **Baker S**, Aanensen DM, Lingegowda RK. Circulation of third-generation cephalosporin resistant *Salmonella Typhi* in Mumbai, India. *Clin Infect Dis.* 2021 Oct 9:ciab897. doi: 10.1093/cid/ciab897. PMID: 34626469.

Mylona E, Voong Vinh P, Qureshi S, Karkey A, Dongol S, Ha Thanh T, Walson J, Ballell L, Fernández Álvaro E, Qamar F, **Baker S**. Tebipenem as an oral alternative for the treatment of typhoid caused by XDR *Salmonella Typhi*. *J Antimicrob Chemother.* 2021 Sep 17:dkab326. doi: 10.1093/jac/dkab326. Epub ahead of print. PMID: 34534310.

Guevara PD, Maes M, Thanh DP, Duarte C, Rodriguez EC, Montaño LA, Dan THN, Nguyen TNT, Carey ME, Campos J, Chinen I, Perez E, **Baker S**. A genomic snapshot of *Salmonella enterica* serovar Typhi in Colombia. *PLoS Negl Trop Dis.* 2021 Sep 16;15(9):e0009755. doi: 10.1371/journal.pntd.0009755. Epub ahead of print. PMID: 34529660.

Chung The H, Nguyen Ngoc Minh C, Tran Thi Hong C, Nguyen Thi Nguyen T, Pike LJ, Zellmer C, Pham Duc T, Tran TA, Ha Thanh T, Van MP, Thwaites GE, Rabaa MA, Hall LJ, **Baker S**. Exploring the Genomic Diversity and Antimicrobial Susceptibility of *Bifidobacterium pseudocatenulatum* in a Vietnamese Population. *Microbiol Spectr.*

2021 Sep 15:e0052621. doi: 10.1128/Spectrum.00526-21. Epub ahead of print. PMID: 34523984.

Cowley LA, Afrad MH, Rahman SIA, Mamun MMA, Chin T, Mahmud A, Rahman MZ, Billah MM, Khan MH, Sultana S, Khondaker T, **Baker S**, Banik N, Alam AN, Mannoor K, Banu S, Chowdhury A, Flora MS, Thomson NR, Buckee CO, Qadri F, Shirin T. Genomics, social media and mobile phone data enable mapping of SARS-CoV-2 lineages to inform health policy in Bangladesh. *Nat Microbiol*. 2021 Sep 8. doi: 10.1038/s41564-021-00955-3. Epub ahead of print. PMID: 34497354.

Mlcochova P, Kemp S, Dhar MS, Papa G, Meng B, Ferreira IATM, Datir R, Collier DA, Albecka A, Singh S, Pandey R, Brown J, Zhou J, Goonawardane N, Mishra S, Whittaker C, Mellan T, Marwal R, Datta M, Sengupta S, Ponnusamy K, Radhakrishnan VS, Abdullahi A, Charles O, Chattopadhyay P, Devi P, Caputo D, Peacock T, Wattal DC, Goel N, Satwik A, Vaishya R, Agarwal M; Indian SARS-CoV-2 Genomics Consortium (INSACOG); Genotype to Phenotype Japan (G2P-Japan) Consortium; **CITIID-NIHR BioResource COVID-19 Collaboration**, Mavousian A, Lee JH, Bassi J, Silacci-Fegni C, Saliba C, Pinto D, Irie T, Yoshida I, Hamilton WL, Sato K, Bhatt S, Flaxman S, James LC, Corti D, Piccoli L, Barclay WS, Rakshit P, Agrawal A, Gupta RK. SARS-CoV-2 B.1.617.2 Delta variant replication and immune evasion. *Nature*. 2021 Sep 6. doi: 10.1038/s41586-021-03944-y. Epub ahead of print. PMID: 34488225.

Phillips MT, Meiring JE, Voysey M, Warren JL, **Baker S**, Basnyat B, Clemens JD, Dolecek C, Dunstan SJ, Dougan G, Gordon MA, Thindwa D, Heyderman RS, Holt KE, Qadri F, Pollard AJ, Pitzer VE; STRATAA Study Group. A Bayesian approach for estimating typhoid fever incidence from large-scale facility-based passive surveillance data. *Stat Med*. 2021 Aug 24. doi: 10.1002/sim.9159. PMID: 34428309.

Illingworth CJ, Hamilton WL, Warne B, Routledge M, Popay A, Jackson C, Fieldman T, Meredith LW, Houldcroft CJ, Hosmillo M, Jahun AS, Caller LG, Caddy SL, Yakovleva A, Hall G, Khokhar FA, Feltwell T, Pinckert ML, Georgana I, Chaudhry Y, Curran MD, Parmar S, Sparkes D, Rivett L, Jones NK, Sridhar S, Forrest S, Dymond T, Grainger K, Workman C, Ferris M, Gkrania-Klotsas E, Brown NM, Weekes MP, **Baker S**, Peacock SJ, Goodfellow IG, Gouliouris T, de Angelis D, Török ME. Superspreaders drive the largest outbreaks of hospital onset COVID-19 infections. *eLife*. 2021 Aug 24;10:e67308. doi: 10.7554/eLife.67308. PMID: 34425938; PMCID: PMC8384420.

Pereira-Dias J, Nguyen Ngoc Minh C, Tran Thi Hong C, Nguyen Thi Nguyen T, Ha Thanh T, Zellmer C, Chung The H, Pike L, Higginson EE, **Baker S**. The gut microbiome of healthy Vietnamese adults and children is a major reservoir for resistance genes against critical antimicrobials. *J Infect Dis*. 2021 Aug 10:jiab398. doi: 10.1093/infdis/jiab398. Epub ahead of print. PMID: 34374428.

Park SE, Pham DT, Pak GD, Panzner U, Maria Cruz Espinoza L, von Kalckreuth V, Im J, Mogeni OD, Schütt-Gerowitz H, Crump JA, Breiman RF, Adu-Sarkodie Y, Owusu-Dabo E, Rakotozandrindrainy R, Bassiahi Soura A, Aseffa A, Gasmelseed N, Sooka A, Keddy KH, May J, Aaby P, Biggs HM, Hertz JT, Montgomery JM, Cosmas L, Olack B, Fields B, Sarpong N, Razafindrabe TJL, Raminosoa TM, Kabore LP, Sampo E, Teferi M, Yeshitela B, El Tayeb MA, Krumkamp R, Dekker DM, Jaeger A, Tall A,

Gassama A, Niang A, Bjerregaard-Andersen M, Løfberg SV, Deerin JF, Park JK, Konings F, Carey ME, Van Puyvelde S, Ali M, Clemens J, Dougan G, **Baker S**, Marks F. The genomic epidemiology of multi-drug resistant invasive non-typhoidal *Salmonella* in selected sub-Saharan African countries. *BMJ Glob Health*. 2021 Aug;6(8):e005659. doi: 10.1136/bmjgh-2021-005659. PMID: 34341020.

Hoa TN, Munshi SU, Ngoc KN, Ngoc CL, Thanh TTT, Akther T, Tabassum S, Parvin N, **Baker S**, Rahman M. A tightly clustered hepatitis E virus genotype 1a is associated with endemic and outbreak infections in Bangladesh. *PLoS One*. 2021 Jul 22;16(7):e0255054. doi: 10.1371/journal.pone.0255054. PMID: 34293039.

Duy PT, Dongol S, Giri A, Nguyen To NT, Dan Thanh HN, Nhu Quynh NP, Duc Trung P, Thwaites GE, Basnyat B, **Baker S**, Rabaa MA, Karkey A. The emergence of azithromycin-resistant *Salmonella Typhi* in Nepal. *JAC Antimicrob Resist*. 2020 Dec 21;2(4):dlaa109. doi: 10.1093/jacamr/dlaa109. PMID: 34223059; PMCID: PMC8210228.

Collier DA, Ferreira IATM, Kotagiri P, Dahir R, Lim E, Touizer E, Meng B, Abdullahi A; **CITIID-NIHR BioResource COVID-19 Collaboration**, Elmer A, Kingston N, Graves B, Le Gresley E, Caputo D, Bergamaschi L, Smith KGC, Bradley JR, Ceron-Gutierrez L, Cortes-Acevedo P, Barcenas-Morales G, Linterman MA, McCoy L, Davis C, Thomson E, Lyons PA, McKinney E, Doffinger R, Wills M, Gupta RK. Age- related immune response heterogeneity to SARS-CoV-2 vaccine BNT162b2. *Nature*. 2021 Jun 30. doi: 10.1038/s41586-021-03739-1. Epub ahead of print. PMID: 34192737.

Wain J, Simpson JA, Luong TDN, To SD, Pham TD, **Baker S**, Day NPJ, White NJ, Parry CM. Bactericidal activities and post-antibiotic effects of ofloxacin and ceftriaxone against drug-resistant *Salmonella enterica* serovar Typhi. *J Antimicrob Chemother*. 2021 Jun 28:dkab215. doi: 10.1093/jac/dkab215. PMID: 34179968.

Pfavayi LT, Denning DW, **Baker S**, Sibanda EN, Mutapi F. Determining the burden of fungal infections in Zimbabwe. *Sci Rep*. 2021 Jun 24;11(1):13240. doi: 10.1038/s41598-021-92605-1. PMID: 34168204.

Török ME, Underwood BR, Toshner M, Waddington C, Sidhom E, Sharrocks K, Bousfield R, Summers C, Saunders C, McIntyre Z, Morris H, Piper J, Calderon G, Dennis S, Assari T, de Rotrou AM, Shaw A, Bradley J, O'Brien J, Rintoul RC, Smith I, Bullmore E, Chatterjee K; **CITIID-NIHR BioResource COVID-19 Collaboration**. Challenges and opportunities for conducting a vaccine trial during the COVID-19 pandemic in the United Kingdom. *Clin Trials*. 2021 Jun 22:17407745211024764. doi: 10.1177/17407745211024764. PMID: 34154428.

Sridhar S, Forrest S, Pickard D, Cormie C, Lees EA, Thomson NR, Dougan G, **Baker S**. Inhibitory Concentrations of Ciprofloxacin Induce an Adaptive Response Promoting the Intracellular Survival of *Salmonella enterica* Serovar Typhimurium. *mBio*. 2021 Jun 22:e0109321. doi: 10.1128/mBio.01093-21 PMID: 34154399.

Manandhar S, Amatya P, Ansari I, Joshi N, Maharjan N, Dongol S, Basnyat B, Dixit SM, **Baker S**, Karkey A. Risk factors for the development of neonatal sepsis in a

neonatal intensive care unit of a tertiary care hospital of Nepal. BMC Infect Dis. 2021 Jun 9;21(1):546. doi: 10.1186/s12879-021-06261-x. PMID: 34107906.

Bergamaschi L, Mescia F, Turner L, Hanson AL, Kotagiri P, Dunmore BJ, Ruffieux H, De Sa A, Huhn O, Morgan MD, Gerber PP, Wills MR, **Baker S**, Calero-Nieto FJ, Doffinger R, Dougan G, Elmer A, Goodfellow IG, Gupta RK, Hossmillo M, Hunter K, Kingston N, Lehner PJ, Matheson NJ, Nicholson JK, Petrunkina AM, Richardson S, Saunders C, Thaventhiran JED, Toonen EJM, Weekes MP; Cambridge Institute of Therapeutic Immunology and Infectious Disease-National Institute of Health Research (CITIID-NIHR) COVID BioResource Collaboration, Göttgens B, Toshner M, Hess C, Bradley JR, Lyons PA, Smith KGC. Longitudinal analysis reveals that delayed bystander CD8+ T cell activation and early immune pathology distinguish severe COVID-19 from mild disease. *Immunity*. 2021 May 16:S1074-7613(21)00216-8. doi: 10.1016/j.jimmuni.2021.05.010. PMID: 34051148; PMCID: PMC8125900.

Sridhar S, Forrest S, Warne B, Maes M, **Baker S**, Dougan G, Bartholdson Scott J. High-Content Imaging to Phenotype Antimicrobial Effects on Individual Bacteria at Scale. *mSystems*. 2021 May 18;6(3):e00028-21. doi: 10.1128/mSystems.00028-21. PMID: 34006623.

Argimón S, Yeats CA, Goater RJ, Abudahab K, Taylor B, Underwood A, Sánchez-Busó L, Wong VK, Dyson ZA, Nair S, Park SE, Marks F, Page AJ, Keane JA, **Baker S**, Holt KE, Dougan G, Aanensen DM. A global resource for genomic predictions of antimicrobial resistance and surveillance of *Salmonella Typhi* at pathogenwatch. *Nat Commun*. 2021 May 17;12(1):2879. doi: 10.1038/s41467-021-23091-2. PMID: 34001879.

Hawkey J, Paranagama K, Baker KS, Bengtsson RJ, Weill FX, Thomson NR, **Baker S**, Cerdeira L, Iqbal Z, Hunt M, Ingle DJ, Dallman TJ, Jenkins C, Williamson DA, Holt KE. Global population structure and genotyping framework for genomic surveillance of the major dysentery pathogen, *Shigella sonnei*. *Nat Commun*. 2021 May 11;12(1):2684. doi: 10.1038/s41467-021-22700-4. PMID: 3397613

Jones NK, Rivett L, Seaman S, Samworth RJ, Warne B, Workman C, Ferris M, Wright J, Quinnell N, Shaw A; **CITIID-NIHR BioResource COVID-19 Collaboration**, Goodfellow IG, Lehner PJ, Howes R, Wright G, Matheson NJ, Weekes MP. Single-dose BNT162b2 vaccine protects against asymptomatic SARS-CoV-2 infection. *eLife*. 2021 Apr 8;10:e68808. doi: 10.7554/eLife.68808. PMID: 33830018.

Stephenson E, Reynolds G, Botting RA, Calero-Nieto FJ, Morgan MD, Tuong ZK, Bach K, Sungnak W, Worlock KB, Yoshida M, Kumasaka N, Kania K, Engelbert J, Olabi B, Spegarova JS, Wilson NK, Mende N, Jardine L, Gardner LCS, Goh I, Horsfall D, McGrath J, Webb S, Mather MW, Lindeboom RGH, Dann E, Huang N, Polanski K, Prigmore E, Gothe F, Scott J, Payne RP, Baker KF, Hanrath AT, Schim van der Looff ICD, Barr AS, Sanchez-Gonzalez A, Bergamaschi L, Mescia F, Barnes JL, Kilich E, de Wilton A, Saigal A, Saleh A, Janes SM, Smith CM, Gopee N, Wilson C, Coupland P, Coxhead JM, Kiselev VY, van Dongen S, Bacardit J, King HW; Cambridge Institute of Therapeutic Immunology and Infectious Disease-National Institute of Health Research **CITIID-NIHR BioResource COVID-19 Collaboration**, Rostron AJ, Simpson AJ, Hambleton S, Laurenti E, Lyons PA, Meyer KB, Nikolić MZ, Duncan CJA,

Smith KGC, Teichmann SA, Clatworthy MR, Marioni JC, Göttgens B, Haniffa M. Single-cell multi-omics analysis of the immune response in COVID-19. *Nat Med.* 2021 Apr 20. doi: 10.1038/s41591-021-01329-2. Epub ahead of print. PMID: 33879890.

Maes M, Higginson E, Pereira-Dias J, Curran MD, Parmar S, Khokhar F, Cuchet-Lourenço D, Lux J, Sharma-Hajela S, Ravenhill B, Hamed I, Heales L, Mahroof R, Soderholm A, Forrest S, Sridhar S, Brown NM, **Baker S**, Navapurkar V, Dougan G, Scott JB, Morris AC. Correction to: Ventilator-associated pneumonia in critically ill patients with COVID-19. *Crit Care.* 2021 Apr 6;25(1):130. doi: 10.1186/s13054-021-03560-2. Erratum for: *Crit Care.* 2021 Jan 11;25(1):25. PMID: 33823901.

Tu NTK, Deng X, Hong NTT, Ny NTH, Phuc TM, Tam PTT, Han DA, Ha LTT, Thwaites G, Doorn HRV, Virtala AK, Delwart E, **Baker S**, Vapalahti O, Tan LV, On Behalf Of The Vizions Consortium. *Redondoviridae: High Prevalence and Possibly Chronic Shedding in Human Respiratory Tract, But No Zoonotic Transmission.* *Viruses.* 2021 Mar 24;13(4):533. doi: 10.3390/v13040533. PMID: 33804837.

Chung The H, Bodhidatta L, Pham DT, Mason CJ, Ha Thanh T, Voong Vinh P, Turner P, Hem S, Dance DAB, Newton PN, Phetsouvanh R, Davong V, Thwaites GE, Thomson NR, **Baker S**, Rabaa MA. Evolutionary histories and antimicrobial resistance in *Shigella flexneri* and *Shigella sonnei* in Southeast Asia. *Commun Biol.* 2021 Mar 19;4(1):353. doi: 10.1038/s42003-021-01905-9. PMID: 33742111.

Will RC, Ramamurthy T, Sharma NC, Veeraraghavan B, Sangal L, Haldar P, Pragasam AK, Vasudevan K, Kumar D, Das B, Heinz E, Melnikov V, **Baker S**, Sangal V, Dougan G, Mutreja A. Spatiotemporal persistence of multiple, diverse clades and toxins of *Corynebacterium diphtheriae*. *Nat Commun.* 2021 Mar 8;12(1):1500. doi: 10.1038/s41467-021-21870-5. PMID: 33686077.

**Baker S**, Kellam P, Krishna A, Reece S. Protecting intubated patients from the threat of antimicrobial resistant infections with monoclonal antibodies. *Lancet Microbe.* 2020 Sep;1(5):e191-e192. doi: 10.1016/S2666-5247(20)30126-9. Epub 2020 Sep 7. PMID: 33521719; PMCID: PMC7831774.

Carey ME, Jain R, Yousuf M, Maes M, Dyson ZA, Thu TNH, Nguyen Thi Nguyen T, Ho Ngoc Dan T, Nhu Pham Nguyen Q, Mahindroo J, Thanh Pham D, Sandha KS, **Baker S**, Taneja N. Spontaneous Emergence of Azithromycin Resistance in Independent Lineages of *Salmonella Typhi* in Northern India. *Clin Infect Dis.* 2021 Jan 30:ciaa1773. doi: 10.1093/cid/ciaa1773. PMID: 33515460.

Thuy DB, Campbell J, Thuy CT, Hoang NVM, Voong Vinh P, Nguyen TNT, Nguyen Ngoc Minh C, Pham DT, Rabaa MA, Lan NPH, Hao NV, Thwaites GE, Thwaites CL, **Baker S**, Chau NVV, Chung The H. Colonization with *Staphylococcus aureus* and *Klebsiella pneumoniae* causes infections in a Vietnamese intensive care unit. *Microb Genom.* 2021 Jan 27. doi: 10.1099/mgen.0.000514. PMID: 33502303.

**Baker S.** Challenges and opportunities in antimicrobial resistance research. *Microbiology.* 2021 Jan 25. doi: 10.1099/mic.0.000999. PMID: 33493105.

Devaraj A, González JF, Eichar B, Thilliez G, Kingsley RA, **Baker S**, Allard MW, Bakalatz LO, Gunn JS, Goodman SD. Enhanced biofilm and extracellular matrix production by chronic carriage versus acute isolates of *Salmonella Typhi*. PLoS Pathog. 2021 Jan 19;17(1):e1009209. doi: 10.1371/journal.ppat.1009209. PMID: 33465146.

de Alwis R, Liang L, Taghavian O, Werner E, The HC, Thu TNH, Duong VT, Davies DH, Felgner PL, **Baker S**. The identification of novel immunogenic antigens as potential *Shigella* vaccine components. Genome Med. 2021 Jan 15;13(1):8. doi: 10.1186/s13073-020-00824-4. PMID: 33451348.

Maes M, Higginson E, Pereira-Dias J, Curran MD, Parmar S, Khokhar F, Cuchet-Lourenço D, Lux J, Sharma-Hajela S, Ravenhill B, Hamed I, Heales L, Mahroof R, Solderholm A, Forrest S, Sridhar S, Brown NM, **Baker S**, Navapurkar V, Dougan G, Bartholdson Scott J, Conway Morris A. Ventilator-associated pneumonia in critically ill patients with COVID-19. Crit Care. 2021 Jan 11;25(1):25. doi: 10.1186/s13054-021-03460-5. PMID: 33430915.