

Dr CLAAS KIRCHHELLE

School of History, University College Dublin, @Kirchhelle

Personal Profile

I am a tenured Assistant Professor of the History of Medicine at University College Dublin and Fellow of the Oxford Vaccine Group. Supported by a Wellcome Trust University Award, my interdisciplinary research focuses on the history of infectious disease, vaccines, antibiotics, bacteriophages, and microbial environments.

Positions

Research

Tenured Assistant Professor of the History of Medicine Dublin, IRL University College Dublin (Wellcome Trust University Award) Since 2020

Research Associate/ Martin Fellow Oxford, UK History Faculty/ Oxford Martin School, University of Oxford 2015-2020

Engagement

Curator Oxford, UK 'Typhoidland – the past, present, and future of a global disease' 2019-2022 Multi-venue exhibition in Oxford, Atlanta, Malawi, Nepal, and Bangladesh.

Co-Curator Oxford, UK 'Back from the Dead – Demystifying Antibiotics' (Nov 2016-May 2017) 2015-2017 Museum of the History of Science

Affiliations

Elected Fellow of the Royal Historical Society (FRHistS) Since 2021 Fellow in Vaccine History, Oxford Vaccine Group Since 2021 International Partner, Sydney Centre for Healthy Societies Since 2021 *Career Breaks*

3.5 months part-time carer for child (parental leave) 2021 3 months full-time carer for child (lockdowns) 2020-2021 3.5-months full-time carer for child (parental leave) 2018

Education

University College, University of Oxford Oxford, UK Doctor of Philosophy (DPhil) in History (supervisor: Prof Mark Harrison) 2012-2015 Thesis Title: *Pyrrhic Progress – Antibiotics in Anglo-American Food Production*

University of Chicago Chicago, US Master of Arts (MA) in the Social Sciences 2010-2011

Ludwig-Maximilians-University (LMU) Munich, DE Magister Artium (MA) in Modern and Medieval History 2007-2012

Awards

Research Awards

Long-listed BSHS Hughes Prize for *Typhoid: The Past, Present, and Future of an Ancient Disease* 2023

Joan Thirsk Memorial Prize – awarded by the British Society for Agricultural History 2021 History for *Pyrrhic Progress – Antibiotics in Anglo-American Food Production*.
Choice Magazine Outstanding Academic title listing for 2020 *Pyrrhic Progress – Antibiotics in Anglo-American Food Production*

Short-list Wellcome-AHRC Medical Humanities Awards: 2020 Best Doctoral/ ECR Award category

Turriano ICOHTEC Prize – awarded by the International Committee for the History of Technology for *Pyrrhic Progress – Antibiotics in Anglo-American Food Production* as the

best early career book on the history of technology

Highly Commended ESPAUR Antibiotic Guardian Research Award for 2020 *Pyrrhic Progress – Antibiotics in Anglo-American Food Production*

Long-list Royal Irish Academy Michel Déon Prize nonfiction prize for 2020 *Pyrrhic Progress – Antibiotics in Anglo-American Food Production*

Dev Family Annual Book Prize – Awarded for the best DPhil (PhD) thesis 2016 in the History of Medicine at the University of Oxford.

Patricia Lynn Baker Memorial Prize – University of Chicago 2011 for the best graduate paper analysing institutionalized inequality.

Engagement & Teaching Awards

UCD Impact Prize Finalist for *Typhoidland* exhibition. 2022

British Society for the History of Science (BSHS) Ayrton Prize for outstanding 2021 web projects and digital engagement in the history of science, technology and medicine (HSTM) for *Typhoidland* exhibition.

Bristol Science Film Festival Professional Science Fact Film Prize for 2020 *The Adventures of Alice in Typhoidland* (www.typhoidland.org)

[also: Winner 2021 People's Choice Award Cinema Festival, Shortlisted WHO Health for All Film Festival; Official Selection Melrose Film Festival; 5th Make Art Not War Teaser Future Film Festival; Finalist LabMcCrazy Science Film Festival, shortlisted UKRI/AHRC Research in Film Award 2020]

Gold Medal at Learning Technologies Awards for *Typhoidland* games 2020

Univ. of Oxford Vice Chancellor's Public Engagement for Research Projects Award 2017 for the co-curation of the *Back from the Dead – Demystifying Antibiotics* exhibition

Selected Academic Outputs

Monographs (3)

Kirchhelle, Claas, *Typhoid – The Past, Present, and Future of an Ancient Disease* (London: Scala Arts & Heritage Publishers, 2022) [Long-listed 2023 BSHS Hughes Prize].
<https://scalapublishers.com/typhoid/>

Kirchhelle, Claas, *Ruth Harrison and the History of British Animal Welfare Science and Activism (1920-2000)* (London: Palgrave MacMillan, 2021).
<https://www.palgrave.com/gb/book/9783030627911>

Kirchhelle, Claas, *Pyrrhic Progress – Antibiotics in Anglo-American Food Production (1949-2013)* (New Brunswick: Rutgers University Press, 2020) [Winner 2021 BSAH Thirsk Prize; 2020 Turriano ICOHTEC Prize; Long-listed 2020: Michel Déon Prize; highly commended 2020 PHE Antibiotic Guardian Research Award] , <https://www.rutgersuniversitypress.org/pyrrhic-progress/9780813591476>

Edited Volumes (3)

Kirchhelle, Claas & Brives, Charlotte, "Variable Viruses: The Past, Present and Future of Bacteriophage Research", *Phage* [in preparation, expected Dec 2023].

Velmet, Aro and Kirchhelle, Claas (eds.), Standards and their containers. Microbes, Surveillance, and Global Disease Control, *ESTS*, under review (expected 2023).

Kirchhelle, Claas; Vanderslott, Samantha; Pollard, Andrew (eds.): 'Making a Difference? The past, present, and future of typhoid control', *Clinical Infectious Diseases* (October) 2019.

Databases (1)

Vaccines for the World – an oral history database on vaccine research, development, and trials at the University of Oxford (1994-2022) (expected launch: Feb 2023).

Journal Articles, Commentaries & Book Chapters (45)

* Corresponding author; + joint-first author

In Preparation (1)

Kirchhelle, Claas*, 'Bioterrorism, misinformation, and empire. Typhoid in Dublin and Acre' *Under Review* (3)

Fairgrieve, Duncan*; Halabi, Sam; **Kirchhelle, Claas**; Rizzi, Marco, "Hallmarks for No-Fault Compensation Systems To Address Vaccine Injury", *Public Health Reviews*.

Palanco Lopez, Paula; Webster, Emily; **Kirchhelle, Claas***, 'Eye of the Needle. How typhoid transformed from a sanitary threat to a vaccine challenge', *WHO Bulletin*.

Kirchhelle, Claas, "The Antibio-cene – towards an eco-social analysis of humanity's antimicrobial footprint", *Nature Humanities and Social Sciences Communications*.

Accepted and forthcoming (3)

Velmet, Aro and **Kirchhelle, Claas**, 'Introduction: Standards and their containers', in: Velmet, Aro and **Kirchhelle, Claas** (eds.), Standards and their containers. Microbes, Surveillance, and Global Disease Control, *ESTS* (expected 2023) [preprint: <https://doi.org/10.31235/osf.io/f3stm>].

Kirchhelle, Claas* and Kirchhelle, Charlotte 'Northern Normal – Laboratory Networks, Microbial Culture Collections, and Taxonomies of Power (1939-2000)', *ESTS* (expected 2023) [preprint: <https://doi.org/10.31235/osf.io/yv5ck>].

Gradmann, Christoph and **Kirchhelle, Claas**, 'Pills and Politics – a historical analysis of international antibiotic regulation since 1945', in Rubin, Oliver, Boekkeskov, Eric and Munkholm, Louise (eds.), *Steering Superbugs. The Global Governance of Antimicrobials* (Oxford: Oxford University Press)

Published (38)

Fairgrieve, Duncan; Borghetti, Jean-Sébastien; Dahan, Samuel; Goldberg, Richard; Halabi, Sa; Holm, Søren; Howells, Geraint; **Kirchhelle, Claas**; Pillay, Avinashl Rajneri, Eleonora; Rizzi, Marco; Sintes, Martin; Vanderslott, Samantha; Witzleb, Normann, "No-Fault Compensation Systems for Vaccine Injury", *Tulane Journal of International and Comparative Law* 31/1 (April) (2023).

Kirchhelle, Claas* and Podolsky, Scott H., "An awkward fit – antibiotics and the evolution of international health politics (1945-2022)", Outterson, Kevin and Hoffman, Steven J. (eds.), *Addressing Antimicrobial Resistance through the pandemic treaty – Special Issue Journal of Law, Medicine, and Ethics* 50 S2 (2022), 40-46, <https://doi.org/10.1017/jme.2022.78>

Thornber, Kelly*; Adshead, Fiona; Balayannis, Angeliki; Brazier, Richard; Brown, Ross; Comber, Sean; Court, Caroline; Davidson, Iain; Depledge, Michael; Farmer, Caroline; Gibb, Stuart; Hixson, Richard; **Kirchhelle, Claas**; Moore, Keith; Motta, Marco; Niemi, Lydia; Owen, Steward; Pencheon, David; Pfleger, Sharon; Pitchforth, Emma; Powell, Nei; Schmidt, Wiebke; Smith, Richard; Sowman, Georgina; Tyler-Batt, Wendy; Wilkinson, Helen; Wilson, Edward C.F.; Fleming, Lora; Gaze, William, "First, do no harm: time for a systems approach to address the problem of healthcare derived pharmaceutical pollution", *Lancet Planetary Health* 6/12(2022), [https://doi.org/10.1016/S2542-5196\(22\)00309-6](https://doi.org/10.1016/S2542-5196(22)00309-6)

Glover, Rebecca; Singer, Andrew; Roberts, Adam; **Kirchhelle, Claas**, "The antibiotic subscription model: fostering innovation or repackaging old drugs?", *Lancet Microbe* (2022), [https://doi.org/10.1016/S2666-5247\(22\)00235-X](https://doi.org/10.1016/S2666-5247(22)00235-X)

Palanco Lopez, P., Manyau, S., Dixon, J., MacPherson, E., Nayiga, S., Manton, J., **Kirchhelle, C.**, & Chandler, C. (2022), "Antibiotic Arrivals in Africa: A Case Study of Yaws and Syphilis in Malawi, Zimbabwe and Uganda," *Medicine Anthropology Theory*, 9(3), 1-31. <https://doi.org/10.17157/mat.9.3.5633>

Kirchhelle, Claas and Roberts, Adam, "Embracing the monsters: moving from 'infection control' to 'microbial health'", *Lancet Microbe*, [https://doi.org/10.1016/S2666-5247\(22\)00225-7](https://doi.org/10.1016/S2666-5247(22)00225-7)

Thornber, Kelly & **Kirchhelle, Claas**, 'Hard-wiring AMR into international policy', *Journal of Antimicrobial Chemotherapy* (2022), <https://doi.org/10.1093/jacamr/dlac083>

Saldanha, Saskshi[†], **Kirchhelle, Claas**, Webster, Emily; Vanderslott, Samantha; Vaz, Manjulika, 'Unseen and Unheard; the historical and contemporary vulnerability of Indian manual scavengers', *BMJ Global Health* (2022), <https://doi.org/10.1136/bmjgh-2022-008733>

Kirchhelle, Claas, 'Giants on Clay Feet – public health laboratory services in Britain, Germany, and the US between 1945 and 2020', *Social History of Medicine* (2022), hkac019, <https://doi.org/10.1093/shm/hkac019>

Ryan, Hannah; Flammer, Patrik G.; Nicholson, Rebecca; Loe, Louise; Reeves, Ben; Allison, Enid; Guy, Christopher; Doriga, Inés Lopez; Waldron, Tony; Walker, Don; **Kirchhelle, Claas**; Larson, Greger; Smith, Adrian L., 'Reconstructing the history of helminth prevalence in the UK', *PLOS Neglected Tropical Diseases* (2022), <https://doi.org/10.1371/journal.pntd.0010312>

Weldon, Isaac; Van Katwyk, Susan Rogers; Burci, Gian Luca; Campos Thana C de; Eccleston Turner, Mark; Fryer, Helen R.; Giubilini, Alberto; Hale, Thomas; Harrison, Mark; Johnson, Stephanie; **Kirchhelle, Claas**; Lee, Kelley; Liddell, Kathleen; Mendelsohn, Marc; Ooms, Gorik; Orbinski, James; Piddock, Laura J.V.; Røttingen, John-Arne; Savulescu, Julian; Singer, Andrew C.; Viens, A.M.; Wenham, Clare; Wiktorowicz, Mary E.; Zaidi, Shehla; Hoffman, Steven J., 'Lessons for Antimicrobial Resistance from the Paris Climate Agreement', *American Journal of Public Health* 112 April (2022), 553-557, <https://doi.org/10.2105/AJPH.2021.306695>

Glover, Rebecca; Singer, Andrew; Roberts, Adam; **Kirchhelle, Claas**, 'Sale of UK's Vaccine Manufacturing and Innovation Centre', *BMJ* 376 (2022), e069999, <https://doi.org/10.1136/bmj-2022-069999>

Overton, Kristen; Broom, Alex; Fortané, Nicolas; Raymond, Stephanie; Gradmann, Christoph; Ebiowei, Sameul F. Orubu; Podolsky, Scott H.; Van Katwyk, Susan Rogers; Zaman, Muhammad H.; **Kirchhelle, Claas***, 'Waves of Attention: patterns and themes of international AMR reports (1945-2020)', *BMJ Global Health*, 6: e006909 (2021), <https://doi.org/10.1136/bmjgh-2021-006909>

Glover, Rebecca; Singer, Andrew; Roberts, Adam; **Kirchhelle, Claas***, 'NIMble innovation - a networked institute model for public antibiotic development and trials', *Lancet Microbe* 2/11 (2021), [https://doi.org/10.1016/S2666-5247\(21\)00182-8](https://doi.org/10.1016/S2666-5247(21)00182-8)

Todd, Matthew H.; Idiris, Fahima; Klug, Dana M.; Dowson, Christopher G; Delft, Frank von; Roberts, Adam P.; **Kirchhelle, Claas**; Singer, Andrew C.; Blaskovich, Mark A.T., 'Open up Antibiotic Development', *Wellcome Open Science* (2021), <https://doi.org/10.12688/wellcomeopenres.16847.1>

Fairgrieve, Duncan, Holm, Søren; Howells, Geraint; **Kirchhelle, Claas**; Vanderslott, Samantha, 'In favour of a bespoke COVID-19 vaccines compensation scheme', *Lancet Infectious Diseases* (2021), [https://doi.org/10.1016/S1473-3099\(21\)00065-7](https://doi.org/10.1016/S1473-3099(21)00065-7)

Kirchhelle, Claas & Vanderslott, Samantha, 'The need for harmonised international guidelines ahead of COVID-19 human infection studies', *Public Health Reviews* 42 (2021), <https://doi.org/10.3389/phrs.2021.1603962>

Kirchhelle, Claas, 'Between Bacteriology and Toxicology: Agricultural Antibiotics and US Risk Regulation (1949-1985)', in Creager, Angela and Gaudillière, Jean-Paul (eds.), *Risk on the Table: Food, Health, and Environmental Exposure* (New York: Berghahn, 2021), 214-242, <https://www.berghahnbooks.com/title/CreagerRisk#toc>

Kirchhelle, Claas; Atkinson, Paul; Broom, Alex; Chuengsatiansup, Komatra; Ferreira, Jorge Pinto; Fortané, Nicolas; Frost, Isabel; Gradmann, Christoph; Hoffman, Stephen; van Katwyk, Susan Rogers; Lezaun, Javier; Nayiga, Susan; Outterson, Kevin; Podolsky, Scott H.; Raymond, Stephanie; Roberts, Adam P.; So, Anthony; Taylor, Liz; Singer, Andrew C.; Sringernyuang, Luechai, Chandler, Clare, 'SETting the Standard – multidisciplinary hallmarks for Structural, Equitable, and Tracked antibiotic policy', *BMJ Global Health* (2020); 5:e003091; <http://doi.org/10.1136/bmjgh-2020-003091>

Kirchhelle, Claas* and Gordon Dougan, 'Make it new: reformism and British public health', *Lancet Microbe* (03.09.2020), [https://doi.org/10.1016/S2666-5247\(20\)30143-9](https://doi.org/10.1016/S2666-5247(20)30143-9)

Hoffman, Steven; Savulescu, Julian; Giublini, Alberto; **Kirchhelle, Claas**; Van Katwyk, Susan Rogers; Weldon, Isaac; Campus, Brooke; Harrison, Mark; Maslen, Hannah; McLean, Angela: 'Achieving a Grand Bargain on the Global Antimicrobial Commons: Introduction to the Policy Dialogue: introduction to a special issue', *Health Care Analysis* (Mar 2020)

<http://doi.org/10.1007/s10728-019-00388-4>

Van Katwyk, Susan Rogers; Weldon, Isaac; Giublini, Alberto; **Kirchhelle, Claas**; Harrison, Mark; McLean, Angela; Savulescu, Julian; Hoffman, Steven, 'Making Use of Existing International Legal Mechanisms to Manage the Global Antimicrobial Commons: Identifying Legal Hooks and Institutional Mandates', *Health Care Analysis* (Mar 2020), <http://doi.org/10.1007/s10728-020-00393-y>

Van Katwyk, Susan Rogers; Giublini, Alberto; **Kirchhelle, Claas**; Weldon, Isaac; Harrison, Mark; McLean, Angela; Savulescu, Julian; Hoffman, Steven, 'Exploring Models for an International Legal Agreement on the Global Antimicrobial Commons: Lessons from Climate Agreements', *Health Care Analysis* (Jan 2020), <http://doi.org/10.1007/s10728-019-00389-3>

Greenhough, Beth; Jervis Read, Cressida; Lezaun, Javier; Lorimer, Jamie; McLeod, Carmen, Benezra, Amber; Bloomfield, Sally; Brown, Tim; Clinch, Megan; D'Acquisto, Fulvio; Dumitriu, Anna; Evans, Joshua; Fawcett, Nicola; Fortané, Nicolas; Hall, Lindsay J. Hall; Herrera, César E.; Hodgetts, Timothy; Johnson, Katerina Vicky Ann; **Kirchhelle, Claas**; Krzywoszynska, Anna; Lambert, Helen; Monaghan, Tanya; Nading, Alex; Nerlich, Brigitte; Singer, Andrew C.; Szymanski, Erika; Wills, Jane, 'Setting the Agenda for social science research in the human microbiome', *Palgrave Communications* (Feb 2020), <https://doi.org/10.1057/s41599-020-0388-5>

Singer, Andrew; **Kirchhelle, Claas**; Roberts, Adam P, '(Inter)nationalising the antibiotic pipeline', *Lancet Infectious Diseases* (2020), [http://doi.org/10.1016/S1473-3099\(19\)30552-3](http://doi.org/10.1016/S1473-3099(19)30552-3)

Van Katwyk, Susan; Balasegaram, Manica; Boriello, Pete; Farrar, Jeremy; Giubilini, Alberto; Harrison, Mark; Kieny, Marie-Paul; **Kirchhelle, Claas**; Liu, Joanne; Outtersen, Kevin; Pate, Muhammad Ali; Poirier, Mathieu; Røttingen, John-Arne; Savulescu, Julian; Sugden, Rebecca; Thamlikitkul, Visanu; Weldon, Isaac; Davies, Sally; Hoffman, Steven J. 'A roadmap for sustainably governing the global antimicrobial commons', *The Lancet* (2019), [https://doi.org/10.1016/S0140-6736\(19\)32767-9](https://doi.org/10.1016/S0140-6736(19)32767-9)

Kirchhelle, Claas, 'The Forgotten Typers. The Rise and Fall of Weimar Bacteriophage-Typing (1921-1935)', *Notes & Records. The Royal Society Journal of the History of Science* (2019), <https://doi.org/10.1098/rsnr.2019.0020>

Vanderslott, Samantha; Phillips, Maile Thayer; Pitzer, Virginia, **Kirchhelle, Claas***, 'Water And Filth: Re-evaluating The First Era Of Sanitary Typhoid Intervention', *Clinical Infectious Diseases* 69 [Supplement 5: Making a Difference? The past, present, and future of typhoid control] (2019), S377-384; <https://doi.org/10.1093/cid/ciz610>

Kirchhelle, Claas*; Dyson, Zoe Anne, Dougan, Gordon, 'The bio-social history of AMR', *Clinical Infectious Diseases* 69 [Supplement 5: Making a Difference? The past, present, and future of typhoid control] (2019), S388-394; <https://doi.org/10.1093/cid/ciz556>

Kirchhelle, Claas*; Vanderslott, Samantha; Pollard, Andrew: 'Typhoid: Past and Future', *Clinical Infectious Diseases* 69 [Supplement 5: Making a Difference? The past, present, and future of typhoid control] (2019), S375-376; <https://doi.org/10.1093/cid/ciz551>

Singer, Andrew; **Kirchhelle, Claas**; Roberts, Adam P, 'Reinventing the antimicrobial pipeline in response to the global crisis of antimicrobial-resistant infections', *F1000Research* (2019), 8:238; <https://doi.org/10.12688/f1000research.18302.1>

Kirchhelle, Claas, 'Correspondence - Patchwork regulation won't stop antimicrobial resistance', *Nature* 563 (2018), p. 473; <https://doi.org/10.1038/d41586-018-07454-2>

Kirchhelle, Claas, 'Pharming Animals – a global history of antibiotics in food production', *Palgrave Communications* [Special issue: 'Antibiosis'], *Palgrave Communications* 96/4 (2018), <https://doi.org/10.1057/s41599-018-0152-2>

Kirchhelle, Claas, 'Swann Song. British antibiotic regulation in food production (1953-2006)', *Bulletin of the History of Medicine*, Vol. 92 No. 2 (2018), pp. 317-351; <https://doi.org/10.1353/bhm.2018.0029>

Kirchhelle, Claas, 'Toxic Confusion: the dilemma of antibiotic regulation in West German food production (1951-1990)', *Endeavour* no. 2 (2016), pp. 114-127; <https://doi.org/10.1016/j.endeavour.2016.03.005>

Podolsky, Scott H.; Bud, Robert; Gradmann, Christoph; Hobaek, Bård; **Kirchhelle, Claas**; Mitvedt, Tore; Santesmases, María Jesús; Thoms, Ulrike; Berild, Dag; Lie, Anne Kveim, 'History Teaches Us That Confronting Antibiotic Resistance Requires Stronger Global Collective Action', *Journal of Law, Medicine and Ethics*, 43/S3 (2015), pp. 27-32; <https://doi.org/10.1111/jlme.12271>

Frank Uekötter in Zusammenarbeit mit **Claas Kirchhelle** und Eva Preuß, *100 Jahre Landesbund für Vogelschutz in Bayern*, Umwelt und Erinnerung Band 3 (München, 2015), http://www.umweltunderrinnerung.de/images/umweltunderrinnerung/publikationen/100_Jahre_LBV.pdf

Kirchhelle, Claas and Frank Uekötter, 'Wie Seveso nach Deutschland kam. Umweltskandale und ökologische Debatten 1976 bis 1986', *Archiv für Sozialgeschichte*, 52 (2012), pp. 315-332.

[The essay was later re-published in: Woyke, Meik (ed.), *Wandel Des Politischen. Die Bundesrepublik Deutschland während der 1980er Jahre* (Bonn: Dietz Verlag, 2013)]; <http://library.fes.de/afs-online/afs/ausgaben-online>

Briefing & Policy Papers (3)

ReACT Europe [expert contributor]: *Identifying key bottlenecks in the early stages of antibiotic R&D and exploring public and not-for-profit solutions*. ReACT Initiative Revisiting Effective Models for Advancing the Antibiotic Pipeline (REMAAP) (Uppsala 2023). <https://www.reactgroup.org/wp-content/uploads/2023/03/ReAct-Expert-Policy-Brief-bottlenecks-early-stages-antibiotic-RD-and-public-not-for-profit-solutions-ReAct-Europe-13-March-2023-webb.pdf>

Duncan Fairgrieve, Søren Holm, Geraint Howells, **Claas Kirchhelle**, Samantha Vanderslott, *COVID-19 vaccines: in favour of a bespoke compensation scheme for adverse effects*, submission via British Institute of International and Comparative Law to UK Vaccine Task Force (28.10.2020)

Duncan Fairgrieve, Peter Feldschreiber, Richard Goldberg, Søren Holm, Geraint Howells, **Claas Kirchhelle**, Marcus Pilgerstorfer, Samantha Vanderslott, *Response to DHSC Open Consultation: Changes to Human Medicine Regulations to support the rollout of COVID-19 Vaccines*, submission via British Institute of International and Comparative Law to UK Department of Health and Social Care (18.09.2020).

Book Reviews (9)

Kirchhelle, Claas, Review, 'Carsten Timmermann, 'Moonshots at Cancer. The Roche Story, Basel: Editiones Roche, 2020', *Journal of the History of Medicine and Allied Sciences* (2021). Jrab008, <https://doi.org/10.1093/jhmas/jrab008>

Kirchhelle, Claas, Review, 'Angela Cassidy, 'Vermin, Victims, Disease: British Debates Over Bovine Tuberculosis and Badgers (Palgrave Macmillan, 2019), *Social History of Medicine* (2020), hkaa075, <https://doi.org/10.1093/shm/hkaa075>

Kirchhelle, Claas, Invited Review Article, 'Toxic Tales – Recent Histories of Pollution, Poisoning, and Pesticides', *NTM Journal of the History of Science, Technology and Medicine*, Vol. 26 No. 2 (2018), pp. 213-229; <https://doi.org/10.1007/s00048-018-0190-2>

Kirchhelle, Claas, Review, 'Christian W. McMillen, 'Discovering Tuberculosis. A Global History, 1900 To The Present, New Haven and London: Yale U.P. 2015', *English Historical Review* (2017), p. cex 333.

Kirchhelle, Claas, Review, 'Anne Hardy, Salmonella Infections, Networks of Knowledge, and Public Health in Britain, 1880-1975, Oxford: OUP 2014', *English Historical Review* (2016), 131 (551), pp. 954-955.

Kirchhelle, Claas, Review, 'Scott Podolsky, 'The Antibiotic Era. Reform, Resistance and the Pursuit of a Rational Therapeutics, Baltimore: Johns Hopkins Press 2015', *NTM Journal of the History of Science, Technology and Medicine*, 24/01 (2016), pp. 113-115.

Kirchhelle, Claas, Review, 'Cornel Zwierlein, Der gezähmte Prometheus. Feuer und Sicherheit zwischen Früher Neuzeit und Moderne. Göttingen: Vandenhoeck & Ruprecht 2011', *Le Mouvement Social*, 249, October-December (2014).

Kirchhelle, Claas, Review, 'Arwen P. Mohun, Risk: Negotiating Safety in American Society. Baltimore: Johns Hopkins University Press, 2013', *The British Journal for the History of Science*, 46/03 (2013), pp. 538-40.

Müller [Kirchhelle], Claas, Christian Lohmer, 'Review: 'C. M. Woolgar et al. ed.: Food in medieval England: diet and nutrition.' Oxford: Oxford Univ. Press, 2006', *Deutsches Archiv* 64/2 (2009), pp.

790-791.

Grants, Fellowships & Scholarships

British Academy Global Convening Award 2023-2025

UK Ireland Digital Humanities Research Grants (AHRC/IRC) 2021-2024 Co-PI Typhoid, Cockles, and Terrorism

Norwegian Research Council, The End of Culture: A Critical History of the Antibiotic Pipeline, PI Cultures & Codes strand. 2021-2025

Wellcome Trust University Award (Lecturer, History of Medicine, UCD, Dublin) 2020-2025

Wellcome Trust (workshop and high-level stakeholder meeting: Grand Bargain – 2019 an international treaty framework for AMR')

ESRC Funding (Workshop Hallmarks of success – principles for global antibiotic Policy) 2019

New Venture Fund Grant (Alice in Typhoidland – the past, present, and future of a global disease') 2019-2022

Sanderson Grant (Oxford History Faculty) 2018 New Venture Fund Grant (CID Supplement – Typhoid: Past, Present & Future) 2018 HEFCE GCRF Grant (Typhoid: Past & Present, Workshop) 2018 Junior Research Fellowship, Wolfson College, University of Oxford 2016-2020

EPA Cephalosporin Grant (MHS – Antibiotics: Back from the Dead) 2016-2017 University

College Oxford G.A. Paul Scholarship 2014-2015 German Historical Institute Washington

Doctoral Fellowship 2014 Wellcome Trust Doctoral Scholarship 2012-2015 Fulbright Scholar/ University of Chicago Fellowship 2010-2011

Studienstiftung des Deutschen Volkes Foreign Scholarship 2010-2011 [German National Academic Foundation]

Studienstiftung des Deutschen Volkes Scholarship 2008-2012 [German National Academic Foundation]

Teaching

Pills, Patents, and Policies – the past and present of global pharmaceutical research, development, and marketing Since 2023
BA module
University College Dublin

One World, One Health? The rise and limits of planetary thinking in health, ecology, and food production (1900-2020) Since 2023
MA module
University College Dublin

Contagion & Control - Globalization, Health, Environments, and Disease Since 2020 (1800-2020)
Discovery Module (interdisciplinary undergraduate)
University College Dublin

The History of Biomedicine – A Brief Introduction 2019 Lecture & Seminar Series for NHS medical students (postgraduate)
Oxford University Hospitals

The Evolution of Health Systems 2019 Lecture for NHS medical students (postgraduate)
Oxford University Hospitals

History of Science, Medicine, and Technology (HSMT) Methods & Themes 2018 Lecture &

Seminar Series (postgraduate)
Univ. of Oxford

Nature in Flux –science, medicine, and the environment in the 20th century 2017 Seminar
(undergraduate)
Univ. of Oxford

College Advisor 2017-2021 Wolfson College, Oxford

Further Subject 21 – Authority and Nature 2016-2017 Seminar & Tutorial (undergraduate)
Univ. of Oxford

General History Paper XIV – Global History 1941-1973 2015-2017 Tutorial (undergraduate)
Univ. of Oxford

St. Edmund Hall Admissions Interviewer 2015 University of Oxford

Associate Fellow Higher Education Academy (HEA) Since 2014 Oxford Humanities

Development, Learning, Teaching Training 2013-2014

Teaching Assistance for Special Subject – Britain from the bomb 2013-2014 to the Beatles:
gender, class and social change
Seminar (undergraduate)
Univ. of Oxford

Public & Policy Engagement

Exhibitions & Drama

Scientific Adviser: 'Rare Earth - Mettle' by Alistair Smith on antibiotics, AMR, 2021 and
global inequality

Royal Court Theatre, London (UK)

<https://royalcourttheatre.com/whats-on/rareearthmettle/>

Curator: Typhoidland – the past, present, and future of a global disease' 2019-2024

Multi-venue special exhibition in UK, US, Nepal, Bangladesh, India & Ireland

www.typhoidland.org

Co-curator: Back from the Dead – Demystifying Antibiotics 2016-2017 Special Exhibition at the
Museum of the History of Science

(ca. 50,000 visitors between November 2016 and May 2017)

Oxford, UK

<https://www.mhs.ox.ac.uk/backfromthedead/>

Scientific Advisor: 'Dangerous Visions – Culture' by Alistair Smith, a dystopian 2017 45-
minute BBC Radio 4 afternoon drama on antibiotic resistance

(broadcast: 26.06.2017, ca. 1million listeners)

<https://www.bbc.co.uk/programmes/b08vxt11>

Commended at the BBC Audio Drama Awards 2018

Organiser: Yellow Magic – a children's introduction to the history of penicillin 2013

Oxford Museum of the History of Science

Oxford, UK

Print Journalism, Podcasts & Blogs

Interviewed : "The Antibiotic Crisis Has a Troubling Twist", *Wired* (07.02.2023) 2023

<https://www.wired.com/story/the-antibiotic-resistance-crisis-has-a-troubling-twist/>

Interviewed: 'Ces virus qui remplacent les antibiotiques' 2022 *Les Echos Week-End* (17.11.2022),

<https://www.lesechos.fr/weekend/business-story/ces-virus-qui-remplacent-les-antibiotiques-1879949>

Article: "Threats of Bioterrorism in Ukraine Are Part of a Long History", 2022 Authors:

Elaine Joy and Claas Kirchhelle

Wired (11.03.2022), <https://www.wired.com/story/bioterrorism-ukraine-long-history/>

Interviewed: 'Patient safety and the right of the sick to reject care from 2022 unvaccinated

staff', *Independent* (31.01.2022), <https://www.independent.co.uk/news/health/covid-vaccine-nhs-staff-latest-b2002861.html#comments-area>

Article: Coordinated clinical trials were key to the COVID vaccine triumph – 2021 the same must happen with antibiotics

The Conversation (28.06.2021)

<https://theconversation.com/covid-vaccine-trials-were-a-triumph-now-we-need-a-similar-system-for-antibiotics-162130> [also published in The Scotsman, Yahoo News, New Indian Express, The Week]

Letter to the Editor: COVID Compensation 2021 *Independent* (07.05.2021)

<https://www.independent.co.uk/voices/letters/hartlepool-keir-starmer-brexit-b1843805.html>

Interviewed: 'People who suffer rare reactions after vaccines 'left in the dark' 2021 without any support, warn families'

Independent (07.05.2021)

<https://www.independent.co.uk/news/health/covid-vaccine-side-effects-blood-clots-b1843067.html>

Interviewed: 'In defence of the AstraZeneca vaccine – and what comes next' 2021

Independent (15.04.2021)

<https://www.independent.co.uk/news/science/astrazeneca-vaccine-blood-clots-latest-uk-b1829326.html>

Interviewed: 'Misconceptions over AstraZeneca jab safety could drive global 2021 vaccine divisions, expert warn'

Independent (11.04.2021)

<https://www.independent.co.uk/independentpremium/uk-news/covid-astrazeneca-vaccine-blood-clots-b1829154.html>

Interviewed: 'We have to remember, learn and prepare': Is the UK ready for 2021 the next pandemic'

Independent (23.03.2021)

<https://www.independent.co.uk/news/science/covid-uk-next-pandemic-vaccine-b1820647.html>

Interviewed on "Body Politics" podcast (25.03.2021) 2021

<https://www.bodypoliticspodcast.com/podcast/episode/4b2d8b67/fattened-calves-and-educated-microbes-the-political-history-of-agriculture-and-anti-microbial-resistance>

Letter to the Editor: Vaccine approval and safety measures 2020 Authors: Duncan

Fairgrievies, Søren Holm, Geraint Howells,

Claas Kirchhelle, Samantha Vanderslott

The Times (07.12.2020)

<https://www.thetimes.co.uk/article/times-letters-vaccine-approval-and-safety-measures-khxp5msqn>

Interviewed: 'Cholera' 2020 Futuremakers Podcast: The History of Pandemics (Univ. Oxford)

<https://www.research.ox.ac.uk/Article/2020-11-20-futuremakers-podcast-the-history-of-pandemics>

Interviewed: 'Laying the Foundations – Disease and the Emergence 2020 of Public Health',

Green European Journal (30.11.2020)

<https://www.greeneuropeanjournal.eu/laying-the-foundations-disease-and-the-emergence-of-public-health/>

Blog: Page 99 Test – Pyrrhic Progress (Campaign for the American Reader) 2020

<http://page99test.blogspot.com/2020/06/claas-kirchhelles-pyrrhic-progress.html>

Article: 'Challenging Circumstances: we need international guidelines for 2020 human infection studies'

Authors: Claas Kirchhelle & Samantha Vanderslott

Medium (11.06.2020)

<https://medium.com/oxford-university/challenging-circumstances-we-need-international-guidelines-for-human-infection-studies-688051c869f9>

Interviewed: 'COVID-19', the aftermath: insights from history 2020 *Oxford Science Blog* (22.05.2020)

<https://www.research.ox.ac.uk/Article/2020-05-22-covid-19-the-aftermath-insights-from-history>

Article: Antibiotic Resistance Could Lead to More COVID-19 Deaths 2020 Authors: Claas Kirchhelle, Adam Roberts, Andrew Singer

Scientific American (01.04.2020)

<https://blogs.scientificamerican.com/observations/antibiotic-resistance-could-lead-to-more-covid-19-deaths/>

Interviewed: "COVID-19: Insights from history" 2020 Oxford Science Blog (24.03.2020)

<http://www.ox.ac.uk/news/science-blog/covid-19-insights-history-0>

Featured on Oxford University Medium: 2020 'How Oxford's most famous character is helping to drag typhoid

out of the rabbit-hole (20.01.2020)

<https://medium.com/oxford-university/how-oxfords-most-famous-character-is-helping-to-drag-typhoid-out-of-the-rabbit-hole-e88a8b67819f>

Article: 'Big-Pharma has failed - the antibiotic pipeline needs to be taken 2019 under public ownership'

Authors: Claas Kirchhelle, Adam Roberts, Andrew Singer

The Conversation (18.11.2019)

<https://theconversation.com/big-pharma-has-failed-the-antibiotic-pipeline-needs-to-be-taken-under-public-ownership-126058>

Article: 'Typhoid - How Global Neglect Led to the Resurgence of an Ancient Disease' 2019

Authors: Claas Kirchhelle, Samantha Vanderslott

The Conversation (30.10.2019)

<https://theconversation.com/decades-neglecting-an-ancient-disease-has-triggered-a-health-emergency-around-the-world-121282>

Broadcasting

Interviewed on BBC Radio Oxford Breakfast Club 2020 History and pandemics (15.10.2020)

<https://www.bbc.co.uk/sounds/play/p08srn1x>

Interviewed on UCD Fireside Chat 2020 COVID-19 and History (07.10.2020)

<https://www.youtube.com/watch?v=HRRlmgOdzsM>

Adviser: 'The risky way to speed up a coronavirus vaccine'; 2020 Vox.com documentary on Human Challenge Trials;

https://www.youtube.com/watch?v=r2fxjI_cP58

Featured on 'Coronavirus: Explained – Race for a Vaccine', 2020 Netflix/Vox three-part series on COVID-19

<https://www.netflix.com/gb/title/81273378>

Expert advisor/ featured on: Featured on "Surprisingly Brilliant" (Gregg Foot) 2020

Seeker Podcast on Mary Mallon/ Typhoid Mary

<https://podcasts.apple.com/gb/podcast/death-by-peach-melba/id1502149340?i=1000476045017>

Interviewed on BBC Radio 4 'Inside Science' 2020 Typhoidland and Typhoid Mary (30.01.2020)

<https://www.bbc.co.uk/programmes/m000dqz3>

Interviewed on BBC World Service 'Health Check' 2020 The Past & Present of Typhoid Control (29.01.2020)

<https://www.bbc.co.uk/programmes/w3csy9l2>

Interviewed on BBC One South 2020 Typhoid in Oxford (24.01.2020)

Live TV Interview by Annita McVeigh on BBC 2/BBC News on the history 2019 of typhoid control and the rollout of new typhoid conjugate vaccines (5.12.2019)

Interviewed for Uppsala AMR Studio 2019 Episode 13: The historian's role in AMR

<https://www.uac.uu.se/the-amr-studio/episode13/>

Interviewed on Jeremy Cherfas' 'Eat This Podcast' 2017 (broadcast: 07.10.2017)

<https://www.eatthispodcast.com/antibiotics-and-agriculture/>

Public Lectures

Water, Viruses, and Viruses - 150 years of typhoid control in Oxford 2020 With Samantha Vanderslott

Oxford Martin School: Alice in Typhoidland Lecture Series

Regulation and Resistance – a history of agricultural antibiotic use in the 2017 US and UK (1949-2015)

Public Engagement Lecture: Museum of the History of Science
Oxford, UK

Resisting Resistance – a brief history of AMR and its control 2016 Presentation at
Manchester Global Health Society
Manchester, UK

Organised Conferences, Workshops & Seminar Series

Variable Viruses: The past, present, and future of bacteriophage research 2023 Co-organiser: Dr Charlotte Brives
University College Dublin

Social Sciences and Infectious Disease: From research to engagement 2022 Oxford Martin School

Co-organiser: Dr Samantha Vanderslott/ Dr Emily Webster

Panel: Surveying the Microbiome: Diagnostics, Laboratory Networks 2021 & Preparedness"

Seminar Series: Centre for the History of Medicine in Ireland (CHOMI) Since 2020 Panel: Into the Bioarchives! Historical approaches to microbial culture collections 2020

Lecture Series: Alice in Typhoidland - the past, present, and future of 2020 typhoid control

Co-organiser: Dr Samantha Vanderslott

Panel Discussion: New approaches to antibiotic development and stewardship 2019 Oxford Martin School

Co-organisers: Dr Andrew Singer, Dr Adam Roberts

Workshop/ High-level Policy Conference "A Grand Bargain, 2019 Towards an International Legal Framework on AMR"

Oxford Martin School/ All Souls College, Oxford

Co-organisers: Prof Steven Hoffman, Prof Julian Savulescu, Dr Alberto Giubilini & Dr Susan Rogers van Katwyk.

Conference: Standards and their Containers – the global history of pathogen- 2019 vector standardisation (12.-13.04. 2019)

Wadham College/ Oxford Martin School, Oxford, UK

Co-organiser: Dr Aro Velmet

Workshop: Hallmarks of success – principles for global antibiotic policy 2019 (14.-15.03.2019)

LSHTM, London UK

Co-organiser: Prof Clare Chandler

Conference: Typhoid: Past and Present (14.-15.06.2018) 2018 Museum of the History of Science/ St. Cross College, Oxford, UK

Co-organiser: Dr Samantha Vanderslott

Co-Convenor, Seminars in the History of Science, Medicine, and Technology 2016-2017 Wellcome Unit for the History of Medicine
University of Oxford

Convenor, Wellcome Unit Thesis Workshop 2013-2015 University of Oxford

Convenor, University College Modern History Seminar 2013-2014 University of Oxford

Selected Invited Lectures & Presentations

Eye of the Needle – how typhoid became a vaccine-preventable disease 2022 Asian Conference On Diarrhoeal Disease and Nutrition (ASCODD)
Kolkata, India

Beyond boom and bust: re-evaluating the history of West-European phage therapy 2022 Phages in Paris. Annual Meeting of French Phage Network, Institut Pasteur, Paris, France

Quo Vadis AMR? Historical continuities, ruptures, and opportunities for antibiotic 2022 policy-making in a (post-)Covid world.

Research and innovation to reduce the burden of antibiotic resistance (Colloque , Présidence Française du Conseil de L'Union Européenne, INSERM, Ministère De

L'Enseignement Supérieur, de la Recherche et de l'innovation)
Paris, France

Bearing Witness – Ruth Harrison and British Farm Animal Welfare (1920-2000) 2022
LSHTM History Seminar
London, UK

The Third Domain - Antimicrobial Resistance, Ecological Risks, and the 2021 Difficulties
of One Health Surveillance (1940-2020)
INSERM Colloque International, Recherche(s), Santé et environnement
19ième-21ième siècle, Paris, France

Recasting the Mould – Integrating History and the Social Sciences Research 2021 Into
Antimicrobial Policymaking
Royal Society for Tropical Medicine and Hygiene Annual Meeting (virtual)

Paradise Lost? (Dis)similarities between antibiotic and vaccine development 2021 UCL
Vaccine Equity Workshop
London, UK

Bearing Witness – Ruth Harrison and British Farm Animal Welfare 2021 Oxford History
of Science Seminar
Oxford, UK

'Northern Normal: Typhoid Surveillance, Culture Collections, and 2020 Taxonomies of
Power (1938-2000)
Oxford Geography Seminar
Oxford, UK

A historical bird's eye view of antibiotics and stewardship in agriculture 2020 AMIS:
Antibiotics beyond humans: Ecologies, production, flows.
London, UK

Pyrrhic Progress - antibiotic stewardship and antimicrobial resistance 2020 since 1935
University of Copenhagen (virtual)
Copenhagen, Denmark

Pyrrhic Progress – a biohistorical review of antibiotic stewardship and 2020
antimicrobial resistance since 1935
Liverpool School of Tropical Medicine
Liverpool, UK

Dreams of Eradication, the Global History of Typhoid Surveillance 2019 and Control
WHO Enteric Diseases Group
Geneva, Switzerland

Antibiotics, AMR, and agriculture – a complicated history (1935-2018) 2019 Uppsala
Antibiotic Centre
Uppsala, Sweden

Dreams of Eradication, the Global History of Typhoid Surveillance 2019 and Control
University of Liverpool
Liverpool, UK

Pyrrhic Progress, the global history of antibiotic use, resistance, and regulation 2019
Conference: Antibio-addicts: Defining and governing antimicrobial resistance in the age
of One Health
Paris, France

A Contagious City –120 years of typhoid control and eradication in Oxford 2019 11th
International Conference on Typhoid & Other Invasive Salmonellosis Sabin and CaT
Institute
Hanoi, Vietnam

'Dr Felix' Fingerprint Bureau – bacteriophages and global disease surveillance' 2018
Global and Transnational History Seminar (Oxford University)
Oxford, UK

Pharming Animals – antibiotics in global food production 2018 Social Science and AMR Research Symposium (British Academy)
London, UK

Resistenz – Antibiotika und Regulierung in Großbritannien 2018 Seminar: Institut für Geschichte der Medizin, Justus-Liebig Universität Gießen, Germany

Between bacteriology and toxicology – agricultural antibiotics and the changing world of FDA risk regulation (1949-1985)
Workshop: Vets, One Health and Antimicrobial Resistance in the Past and the Present (Kings College)
London, UK

Regulation and Resistance – a history of non-human antibiotic use in the US and UK (1949-2015)
Seminar: Centre for the History of Medicine, University of Glasgow
Glasgow, UK

Between bacteriology and toxicology – agricultural antibiotics and the changing world of FDA risk regulation (1949-1985)
Workshop: Risk on the Table – Food, Health, and Environmental Exposures Princeton, US
Resistance – a story of antibiotics, bacteria, and public health in Britain 2017 Seminar:
London School of Hygiene and Tropical Medicine
London, UK

Pyrrhic Progress. Antibiotics in Western Food Production 2016 Seminar: Harvard University – Center for the History of Medicine
Boston, US

The Colindale Typers – Bacteriophages and the British Public Health 2016 Laboratory Service

Seminar: University of Cambridge, Depart. of History and Philosophy of Science
Cambridge, UK

Resisting Resistance. The Transatlantic Regulation of Antibiotic Risk (1941– 2013)
Conference: Kyung Hee University
Seoul, South Korea

Pyrrhic Progress. Antibiotics in Western Food Production 2015 Seminar: Wellcome Unit for the History of Medicine
Oxford, UK

Bacteria know no guilt. The challenges of regulating agricultural antibiotics 2015 in the US (1949-2015)
Seminar: Institut National de la Recherche Agronomique
Paris, France

Pyrrhic Progress. Consumer Attitudes Towards Agricultural Antibiotics 2014 Seminar: German Historical Institute
Washington DC, US

Beyond Toxic – Britain and the challenges of agricultural antibiotic regulation since 1953
Seminar: Maison Française d'Oxford Environmental History
Seminar Oxford, UK

Agricultural antibiotics, public anxiety, and expert empowerment 2013 in Britain (1953-2003)
Workshop: Futures past and present of antibiotic resistance
Oslo, Norway

Contagious Chemistry: The Eclipse of Subtherapeutic Antibiotics in West German Agriculture (1951-1990)
Workshop: 'Is This The End? The Eclipse of the Therapeutic Revolution'
Zurich, Switzerland