

DEPARTMENT FOR CONTINUING EDUCATION

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READING LIST

Course Title: Pandemic Data Science
Location: Online, None
Term Dates: 20 Apr 2023 to 29 Jun 2023
Tutor: Daniel O'Connor

The reading list below was supplied by the course tutor.

If you have enrolled on a course starting in the autumn, you can become a borrowing member of the Rewley House library from 1st September. If you are enrolled on a course starting in other terms, you can become a borrowing member once the previous term has ended. For example, students starting in January can join the Library in early December and those starting in April can join in early March.

If you are planning to purchase any books, please keep in mind that courses with insufficient students enrolled will be cancelled. The Department accepts no responsibility for books bought in anticipation of a course running.

Preparatory Reading List

The items on this list are to give you some background to the materials and ideas that we will be covering on the course.

Author	Title
COMBAT consortium	<i>A blood atlas of COVID-19 defines hallmarks of disease severity and specificity. Cell 2022.</i>
Davis, MM/Tato, CM/Furman, D	<i>Systems immunology: just getting started. Nature Immunology 2017; 18(7): 725-32.</i>
Emary, KRW/ Golubchik, T / Aley, PK et al.	<i>Efficacy of ChAdOx1 nCoV-19 (AZD1222) vaccine against SARS-CoV-2 variant of concern 202012/01 (B.1.1.7): an exploratory analysis of a randomised controlled trial. Lancet 2021; 397(10282): 1351-62.</i>
Kalil, AC/ Patterson, TF/ Mehta, AK, et al.	<i>Baricitinib plus Remdesivir for Hospitalized Adults with Covid-19. N Engl J Med 2020</i>
Voysey, M/ Clemens, SAC/ Madhi, SA, et al.	<i>Safety and efficacy of the ChAdOx1 nCoV-19 vaccine (AZD1222) against SARS-CoV-2: an interim analysis of four randomised controlled trials in Brazil, South Africa, and the UK. Lancet 2021; 397(10269): 99-111.</i>

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Yu, M/ Tang, A/ Brown, K, et al. *Integrating artificial intelligence in bedside care for covid-19 and future pandemics. BMJ 2021; 375: e068197.*

Course Reading List

The items on this list are to support your learning while you are taking the course.

Author	Title
Polack, FP/ Thomas, SJ/ Kitchin, N, et al	<i>Safety and Efficacy of the BNT162b2 mRNA Covid-19 Vaccine. N Engl J Med 2020; 383(27): 2603-15</i>
Gordon, A	<i>Interleukin-6 Receptor Antagonists in Critically Ill Patients with Covid-19. New England Journal of Medicine 2021; 384(16): 1491-502.</i>
Group RC/ Horby, PW/ Emberson, JR, et al	<i>Baricitinib in patients admitted to hospital with COVID-19 (RECOVERY): a randomised, controlled, open-label, platform trial and updated meta-analysis. medRxiv 2022: 2022.03.02.22271623.</i>
McCann, N/ O'Connor, D/ Lambe, T/ Pollard, AJ	<i>Viral vector vaccines. Curr Opin Immunol 2022; 77: 102210</i>
O'Connor, D/ Pinto, MV/ Sheerin, D, et al	<i>Gene expression profiling reveals insights into infant immunological and febrile response</i>
O'Connor, D/ Png, E/ Khor, CC, et al.	<i>Common Genetic Variations Associated with the Persistence of Immunity following Childhood Immunization. Cell Rep 2019; 27(11): 3241-53.e4.</i>
Pairo-Castineira, E/ Clohisey, S/ Klaric, L, et al.	<i>Genetic mechanisms of critical illness in COVID-19. Nature 2021; 591(7848): 92-8.</i>
Pulendran, B/ Davis, MM	<i>The science and medicine of human immunology. Science 2020; 369(6511): eaay4014</i>
Tsalik, EL/ Henao, R/ Montgomery, JL, et al.	<i>Discriminating Bacterial and Viral Infection Using a Rapid Host Gene Expression Test. Crit Care Med 2021; 49(10): 1651-63.</i>