

# DAVID WILKINS

Peer-reviewed  
publications

**D. Wilkins**, A. S. Lane, and S. R. Orde. *Audit of low tidal volume ventilation in patients with hypoxic respiratory failure in a tertiary Australian intensive care unit*. *Anaesthesia and Intensive Care*, 2021.  
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**D. Wilkins**, X. Tong, M. H. Y. Leung, C. E. Mason, and P. K. H. Lee. *Diurnal variation in the human skin microbiome affects accuracy of forensic microbiome matching*. *Microbiome*, 2021, 9(1).  
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**D. Wilkins**, M. H. Y. Leung, and P. K. H. Lee. *Microbiota fingerprints lose individually identifying features over time*. *Microbiome*, 2017, 5(1).  
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**D. Wilkins**, S. Rao, X.-Y. Lu, and P. K. H. Lee. *Effects of sludge inoculum and organic feedstock on active microbial communities and methane yield during anaerobic digestion*. *Frontiers in Microbiology*, 2015, 6(1114).  
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**D. Wilkins**, X.-Y. Lu, Z. Shen, J. Chen, and P. K. H. Lee. *Pyrosequencing of *mcrA* and archaeal 16S rRNA genes reveals diversity and substrate preference of anaerobic digester methanogen communities*. *Applied and Environmental Microbiology*, 2015, 81:604-613.  
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**D. Wilkins**, S. Yau, T. J. Williams, M. A. Allen, M. V. Brown, M. Z. DeMaere, F. M. Lauro, and R. Cavicchioli. *Key microbial drivers in Antarctic aquatic environments*. *FEMS Microbiology Reviews*, 2013, 37:303-335.

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Y. Jia, M. H. Y. Leung, X. Tong, **D. Wilkins**, and P. K. H. Lee. *Rare taxa exhibit disproportionate cell-level metabolic activity in enriched anaerobic digestion microbial communities*. *mSystems*, 2019, 4(1), e00208-e00218.  
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M. H. Y. Leung, X. Tong, **D. Wilkins**, H. H. L. Cheung, and P. K. H. Lee. *Individual and household attributes influence the dynamics of the personal skin microbiota and its association network*. *Microbiome*, 2018, 6(1), 26.  
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T. J. Williams, **D. Wilkins**, E. Long, F. Evans, M. Z. DeMaere, M. J. Raftery, and R. Cavicchioli. *The role of planktonic Flavobacteria in processing algal organic matter in coastal East Antarctica revealed using metagenomics and metaproteomics*. Environmental Microbiology, 2013, 15:1302–1317.

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**D. Wilkins**. *R troubleshooting solutions*. Video course. Packt Publishing, Birmingham, United Kingdom, 2018.

**D. Wilkins**. *Learn R programming*. Video course. Packt Publishing, Birmingham, United Kingdom, 2017.

**D. Wilkins**. *Advanced tools and techniques beyond base R*. Video course. Packt Publishing, Birmingham, United Kingdom, 2017.

K. S. Siddiqui, T. J. Williams, **D. Wilkins**, S. Yau, M. A. Allen, M. V. Brown, F. M. Lauro, and R. Cavicchioli. *Psychrophiles*. Annual Review of Earth and Planetary Sciences, 2013, 41:87-115.

T. J. Williams, **D. Wilkins**, M. Z. DeMaere, F. M. Lauro, and R. Cavicchioli. *Microbes under the microscope*. Australian Antarctic Magazine, June 2011

F. M. Lauro, M. A. Allen, **D. Wilkins**, T. J. Williams and R. Cavicchioli. *Genetics, genomics and evolution of psychrophiles*, in Extremophiles Handbook. Springer Verlag GmbH, Heidelberg, Germany, 2010.

*Conference abstracts*

**D. Wilkins**, S. Orde, and A. S. Lane. *Adherence to a low tidal volume ventilation strategy in patients admitted to Nepean Hospital ICU with Acute Respiratory Distress Syndrome*. MD Research Symposium, Sydney School of Medicine, University of Sydney, Australia. September 25–26 2019.

**D. Wilkins**, M. H. Y. Leung, and P. K. H. Lee. *Household surface microbial assemblages are shaped by human-associated groups*. 15<sup>th</sup> International Symposium on Microbial Ecology, Seoul, Korea. August 24–29 2014.

**D. Wilkins**, F. M. Lauro, T. J. Williams, and R. Cavicchioli. *Biogeographic partitioning of Southern Ocean picoplankton*. 14<sup>th</sup> International Symposium on Microbial Ecology, Copenhagen, Denmark. August 19–24 2012.

M. H. Y. Leung, **D. Wilkins**, and P. K. H. Lee. *Comparison of bacterial microbiomes in Hong Kong urban household aerosols*. 15<sup>th</sup> International Symposium on Microbial Ecology, Seoul, Korea. August 24–29 2014.

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R. Cavicchioli, F. M. Lauro, M. Z. DeMaere, T. J. Williams, M. V. Brown, S. Yau and **D. Wilkins**. *Extremophiles in Antarctica: insight into adaptation, evolution and ecosystem function of cold aquatic systems using metagenomics and metaproteomics*. 9<sup>th</sup> International Congress on Extremophiles, Sevilla, Spain. September 10–13 2012.