

## BIOBANKING – THE NEXT LEVEL



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### “BIOBANKING – THE NEXT LEVEL”

Professor McMillan is a cancer biologist whose research has focused on the viral causes of cancer. He discovered the receptor for the human papillomavirus, has developed novel treatments for cancers caused by HPV, and has designed a range of novel nanoparticle delivery systems for gene silencing and editing technologies. His laboratory was the first to show that cancer could be cured in vivo using CRISPR technology in 2019. He is Professor in the School of Medical Sciences and Program Director in the Menzies Health Institute Queensland as well as being the Director of the Gold Coast Biobank. Prof McMillan has had continuous NHMRC grant funding since establishing his laboratory in 1996 and has published 109 papers including papers in *PNAS*, *Clinical Cancer Research*, *Oncology*, *Journal of Virology*, *Nature Nanotechnology* and *Nature Communications*. He is past president of the Australasian Virology Society. His laboratory is currently developing therapies to treat COVID19.

### ABSTRACT

SARS-CoV-2 has highlighted how unprepared the world and the biobanking industry have been in a pandemic. Researchers scrambled to obtain specimens for vaccine research whilst heightening data security to prevent loss of intellectual property. Meanwhile, lockdowns have seen many economies soften but the strengthening of blockchain's gain into the healthcare and medical sector.

This workshop aims to bring to the forefront what the future may hold for biobankers and explore practical and legal issues that come along with it, going forward.

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