

Dark Winter

An insider's guide to pandemics and biosecurity

In *Dark Winter*, world-leading epidemiologist Professor Raina MacIntyre navigates the past, present and future of pandemics and biosecurity. MacIntyre examines the history of biological warfare (and why it is called the 'poor man's nuke'), Soviet and US bioweapons programmes, developments in genetic engineering, synthetic biology and catastrophic laboratory accidents. She also explores the COVID-19 pandemic and the heated debate around its origins, and shares the analysis she has conducted in trying to determine whether it's a natural or unnatural pandemic. Looking ahead, MacIntyre outlines the future of genetic engineering, synthetic biology and bioterrorism, and the national and global security needed to manage quantum changes in technology, along with how we might avoid future pandemics.

A SWEEPING JOURNEY THROUGH THE PAST, PRESENT AND FUTURE OF PANDEMICS AND BIOSECURITY. In *Dark Winter*, world-leading epidemiologist and biosecurity expert Raina MacIntyre provides insights into historical biological attacks, lab accidents and epidemics, and the COVID-19 pandemic. She reveals a recurrent theme of denial, silence and cover-up around unnatural epidemics and the powerful vested interests at play. Using the lens of history, MacIntyre also provides a glimpse into new frontiers of biosecurity. *Dark Winter* outlines quantum advances in genetic engineering and synthetic biology, and a future where human genome editing and resurrection of extinct viruses might be the norm. MacIntyre argues that the solution to the existential threat we face from biotechnology will not come from scientists, but from the community having a voice in the future of the planet and humanity. 'Here is what we all need - clear evidence about COVID-19, its origins, treatment, and consequences. Professor MacIntyre's conclusions are often shocking, but her only bias is in favour of the empirical truth.' - Alison Broinowski



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