



Dr Jacky Suen is a molecular biologist specialised in critical care medicine, inflammation, and research translation.

Dr Suen is the lead biologist at the [Critical Care Research Group \(CCRG\)](#), one of Australia's largest multidisciplinary critical care research facilities. CCRG consists of more than eighty leading clinicians, engineers, scientists, economists, and support staff connected to all major international cardiothoracic hospitals. CCRG has several purpose-built biology, engineering, and bio-fabrication laboratories, as well as the largest preclinical ICU in the southern hemisphere.

For CCRG, Dr Suen leads several large preclinical studies including looking at role of inflammation and coagulation in Acute Respiratory Failures. He is experienced in ARF preclinical models and mechanical ventilation, recently completing a preclinical study of treating ARF/ARDS with mesenchymal stem cells and extracorporeal membrane oxygenation.

Dr Suen co-founded the [COVID-19 Critical Care Consortium](#) with Professor John Fraser and Associate Professor Gianluigi Li Bassi in 2020. The Consortium is an international network of ICU specialists focused on supporting critically ill COVID-19 patients. Under Dr Suen's leadership the Consortium has developed the world's most in-depth database of COVID-19 ICU patient outcomes. The database holds data from >27,000 patients from 400+ hospitals in 64 countries. The Consortium has published 20+ papers since its establishment in 2022.

Dr Suen has >15 years of experience in developing novel therapies against inflammation. He has >120 publications in peer-reviewed journals (80 publications in last three years) and named as an inventor on four patents. He is also a leader in bioinformatic analysis, including genomic, proteomic, and transcriptomic. Dr Suen has developed novel therapeutics and has extensive experience in the research translation and commercialisation of research break throughs and patent applications. He has been awarded over AUD3+ million in research funding as a Clinical Investigator.