

BIOTRON LIMITED
(ASX:BIT)

Investor Presentation
October 2021



Forward Looking Statements

This presentation may contain forward-looking statements with respect to the financial condition, results and business achievements/performance of Biotron Limited (ACN 086 399 144) and certain of the plans and objectives of its management. These statements are statements that are not historical facts. Words such as “should”, “expects”, “anticipates”, “estimates”, “believes” or similar expressions, as they relate to Biotron Limited, are intended to identify forward-looking statements. By their nature, forward-looking statements involve risk and uncertainty because they reflect Biotron’s current expectations and assumptions as to future events and circumstances that may not prove accurate. There is no guarantee that the expected events, trends or results will actually occur. Any changes in such assumptions or expectations could cause actual results to differ materially from current expectations.



Biotron Overview

- Clinical stage company developing small molecule drugs targeting viral diseases with major health problems:
 - HIV-1 , COVID-19, Hepatitis B virus and others
- **Unique approach to tackling virus infections**
 - **Combining direct antiviral and immunomodulatory activities to knock down virus levels and boost the body's immune system to fight the infection**
- Experienced Board and management team with pharma, financial and VC backgrounds
- Headquartered in Sydney, Australia
- Portfolio of clinical and preclinical antiviral drugs



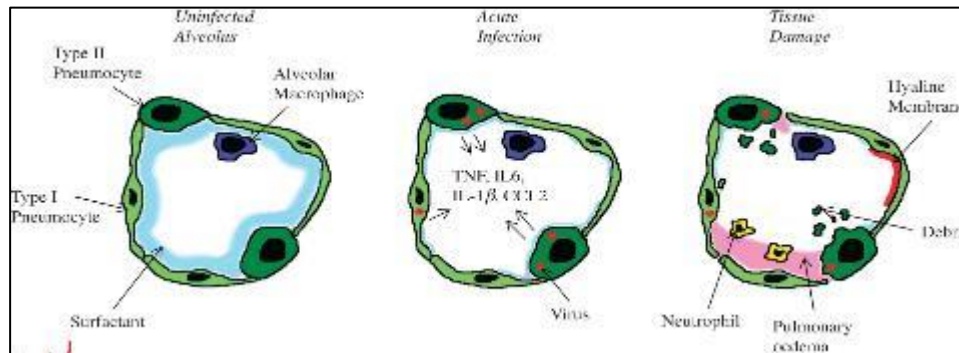
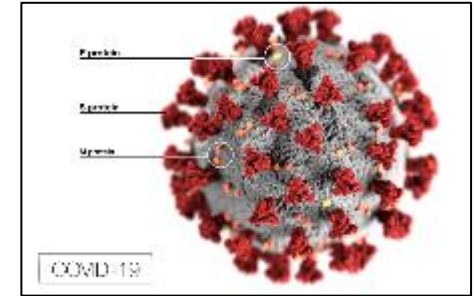
Biotron's Core Technology/Expertise

- Targeting a key viral protein class found on a range of different viruses
 - Known as viroporins – these proteins determine how efficiently a virus infects cells and evades the immune system
- The HIV-1 program, including a successful, completed, Phase 2 HIV-1 clinical trial, demonstrates proof of concept of Biotron's approach
 - Provides clinical validation of Biotron's approach to treating serious virus infections
- During 2020/2021 Biotron extended its technology to target SARS-CoV-2
 - Long standing interest and expertise in coronaviruses dating back to the SARS-1 outbreak
 - Biotron scientists were the first to identify the CoV E protein as a viroporin and a good target for drugs



SARS-CoV-2 – E Protein

- Biotron's approach has been to design new small molecule drugs that target the SARS-CoV-2 viroporin(s)
 - E protein is a viroporin
 - Multiple roles in the virus lifecycle
 - Entry into cells and exit of new virus particles from infected cells
 - Pathogenesis of disease resulting from the infection
 - Triggers inflammatory cascade in the lungs leading to respiratory distress and failure



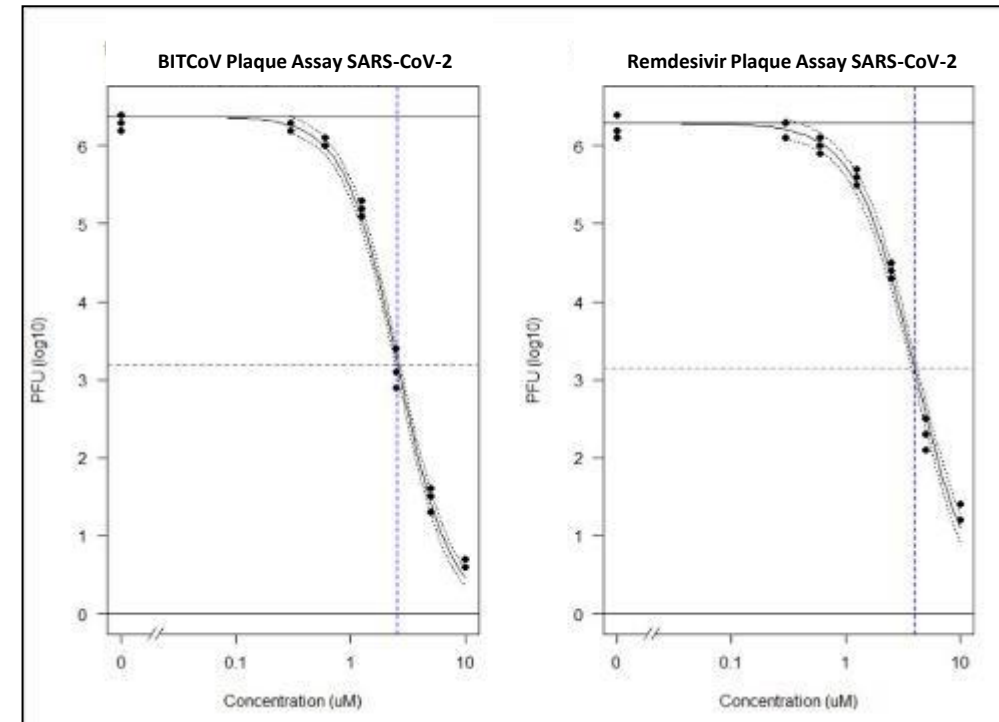
- Deletion of E protein sequences attenuate infectivity and pathogenesis of CoVs
- By targeting E protein Biotron's anti-SARS-CoV-2 compounds are expected to impact on moderate/severe COVID

SARS-CoV-2 Program

Vaccines remain central to control of the pandemic but there is an urgent need for effective drugs to treat COVID in at-risk populations

- Designed and synthesised >100 new compounds to target the SARS-CoV-2 E protein (oral drugs)
- Screened for ability to inhibit replication of SARS-CoV-2 in a range of cell culture models
- Lead series identified based on these studies
 - Several compounds with good antiviral activity, comparable with remdesivir, in these *in vitro* studies
 - Remdesivir only has direct acting antiviral activity, is an infusion, and no reported immunomodulatory activity
- IN PROGRESS:
 - Testing BITCoV in an animal model of SARS-CoV-2 in the USA
 - Assessing immunomodulatory activity in parallel with antiviral activity
 - Running preliminary preclinical safety studies in parallel

Dose-Response Curves – BITCoV vs remdesivir



HIV-1 Unmet Need

- Safe, effective antiretroviral drugs (ART) have been central to successfully keeping virus levels down in HIV+ people; Profound reductions in mortality, morbidity and transmission

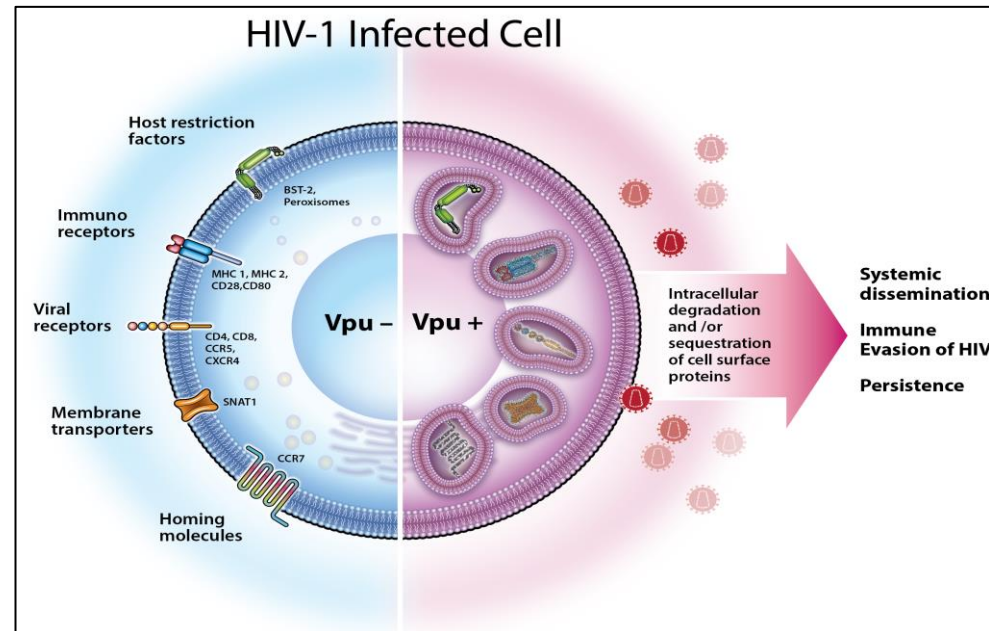
BUT

- **ART is not curative, latent viral reservoirs remain and reactivate**
- **Immune reconstitution is only partial and accompanied by a state of chronic inflammation**
- **A significant excess of chronic diseases, malignancy and neurocognitive deficits result in individual and societal burdens**
- **Global treatment costs are not remotely sustainable**



BIT225 – A new class of anti-HIV drug

- BIT225 is a first-in-class drug that uniquely combines direct acting antiviral with immunomodulatory activities.
- BIT225 targets Vpu protein of HIV-1
 - Vpu is responsible for down-regulating key receptors on infected cells so that infected cells are hidden from the immune system
- Data from the completed Phase 2 clinical trial indicates that BIT225 reverses this process, resulting in “unmasking” of infected cells and reversing the suppression of the immune system



Next Steps for BIT225

- Two new trials are currently before Ethics committees (Australia/Thailand) to further explore key observations related to inflammation and immune activation in both treatment naïve and experienced populations
- Assessing key biomarkers (immunological and virological) consistent with accepted clinical and commercial applications
- Aim is to determine impact on health-related outcomes that will be key to future regulatory filings
- Anticipated to commence on receipt of Ethics approvals, with completion scheduled mid-2022 and results before end of 2022



Summary

- HIV-1 program is the prime focus
 - Clear clinical development program designed to demonstrate to regulators and pharma how the drug may be used to improve health outcomes in combination with ART
- We have several promising SARS-CoV-2 drugs in preclinical development with potential to impact on immune dysfunction seen in moderate to severe COVID. Aim is to progress these as quickly as possible through relevant models and into formal safety studies.
- Hepatitis B (HBV) remains a promising and important early-stage program. Additional resources are being committed to progress this to partner-ready status
- **Multiple partnering opportunities across Biotron's portfolio**



Outlook for 2021/22 FY

- 2H2021
 - Commencement of two HIV-1 trials following receipt of ethics/regulatory approvals
 - Results from testing BITCoV in animal model of SARS-CoV-2 infection
 - Results from cell-based immunomodulatory studies
 - Results from testing BITHBV in animal model of Hepatitis B virus infection
- 1H2021
 - Completion of enrolment into the HIV-1 trials; completion of the in-life component of the HIV-1 trials
 - Progression of BITCoV into formal safety studies



Financial Information

Key Financial Metrics

Ticker Code	ASX: BIT
Share Price (21/09/21)	A \$0.050
Market Cap	A \$35 million
12 Month Trading Range	A \$0.046 – 0.105
Shares Outstanding	702 million
Cash Position (06/2021)	A \$4.21 million

Board

Michael Hoy	Non-executive Chairman
Michelle Miller	Managing Director
Stephen Locarnini	Non-executive Director
Susan Pond	Non-executive Director
Robert Thomas	Non-executive Director



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