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31 October 2019

The Manager Companies  
ASX Limited  
20 Bridge Street  
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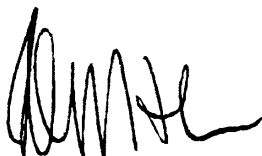
(13 pages by email)

Dear Madam

### **PRESENTATION TO INVESTORS**

I attach a PowerPoint presentation, which is being presented by Biotron Limited's Managing Director, Dr Michelle Miller, at Australia Biotech Invest and Partnering 2019 in Melbourne, Victoria.

Yours sincerely



Peter J. Nightingale  
Company Secretary

pjn10133

### **About Biotron**

Biotron Limited is engaged in the research, development, and commercialisation of drugs targeting significant viral diseases with unmet medical need. The Company has BIT225 in clinical development for HIV-1, and a promising preclinical program for HBV. In addition, Biotron has several earlier stage programs designing drugs that target a class of virus protein known as viroporins which have a key role in the virus life cycle of a very broad range of viruses, many of which have caused worldwide health issues such as Dengue, Ebola, Middle East Respiratory virus, Influenza and Zika viruses.

### **Enquiries**

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**BIOTRON LIMITED**  
**(ASX:BIT)**

**Investor Update**  
October 2019



# 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.



# Summary

- Unique antiviral drugs targeting big health problems: HIV-1, Hepatitis B, Hepatitis C, Dengue and others
- Phase 2 BIT225 HIV-1 clinical trial induced key immune responses not seen in patients dosed with approved anti-HIV-1 drugs
- World-first: BIT225 targets HIV-1 in long-lived reservoir cells. Could stop chronic life-long infection
  - Phase 2 is the ideal stage for licensing
- Hepatitis B virus (HBV) also area where Biotron drugs show efficacy
- Like HIV-1, HBV current drugs suppress disease. Biotron drugs seeking to eradicate virus – reduce levels of cccDNA, *one of the holy grails for new HBV drugs*
- Broad portfolio of partnering opportunities across multiple indications



# Overview

- Clinical stage drug development company
  - Robust pipeline of drugs targeting serious virus infections
  - Focused on the design and development of a new class of antiviral drugs targeting viral-encoded viroporin proteins
- Lead candidate BIT225 is a novel, first-in-class, oral small molecule drug in development for HIV-1 eradication
  - **Positive data in trials to date including a successful HIV-1 Phase 2 trial**
  - Provides clinical validation of Biotron's approach to treating serious virus infections
- Headquartered in Sydney, Australia
- Experienced Board and management team with pharma, financial and VC backgrounds



# Key Achievements 2018/2019

- Completed Phase 2 HIV-1 clinical trial of BIT225
- **Reported positive results from the Phase 2 HIV-1 clinical trial**
- **Raised \$5.7 million after costs in late 2018, including \$4.7 million for 30 Nov '18 \$0.06 options**
  - Places the company in a sound financial position as it focuses on commercial outcomes
- Good progress with promising Hepatitis B Virus (HBV) program
- Set up a world-class advisory group of international HIV-1 experts in mid-2019
- Focus on commercialisation activities and setting up technology for Phase 3 and beyond



# HIV-1 Eradication

## Current drugs do not cure HIV-1 infection

- HIV-1 remains hidden in reservoirs, leading to chronic, life-long infection
- Invisible to body's immune defences
- Not sensitive to current anti-HIV-1 drugs
- ***New mode of actions drugs are needed to eradicate or cure HIV-1 infection***

## Why is HIV-1 eradication necessary?

- Long-term health implications eg. HAND, immune activation, drug-drug interactions
- Compliance issues/drug holidays can lead to viral rebound
- Cost of treatment
  - ~ \$20 billion pa world wide
  - Major burden on healthcare systems

**BIT225 has potential to eradicate HIV-1 reservoirs**



# BIT225-009 Phase 2 HIV-1 Trial

***AIM – to determine whether BIT225 has a clinical benefit over and above current anti-HIV-1 drugs, and provide data to inform the drug's future development path***

Phase 2, 36 subject trial (placebo controlled, double-blinded, multi-site trial)

- HIV-1 positive, treatment-naïve commencing standard anti-HIV-1 treatment (ART)
- BIT225 (200 mg once daily) or placebo added to ART for 12 weeks





# Significance of Results from BIT225-009 Trial

Data from the Phase 2 trial showed that BIT225 induced:

1. Statistically significant reduction in immune activation (sCD163)
2. Significantly significant changes in specific immune cell markers

**i.e. BIT225, a small molecule, direct-acting antiviral drug has  
induced vaccine-like effects**

- Evidence of immunological benefits not seen with any other HIV-1 therapies
- Demonstrates clear benefit over and above approved anti-HIV drugs



# Hepatitis B Virus

- ~300 million worldwide chronically infected with HBV
- HBV causes up to 80% of liver cancers (5 year survival of 15%)
- >780,000 die every year as a consequence of HBV infection
- ***Current treatments suppress virus replication but do not deliver a cure***
- Hepatitis B virus (HBV) therapeutic space has generated significant interest from pharma industry
- Biotron has compounds with good activity against HBV
  - Biotron drugs reduce levels of cccDNA with a unique mechanism of action
    - ***THIS IS ONE OF THE HOLY GRAILS FOR NEW HBV DRUGS***
- Expands Biotron's partnering opportunities – potential for early stage deal



# Commercialisation & Outlook for 2019/2020 FY

- **Prime focus is partnering the HIV-1 program**
  - Progressing discussions with potential partners
  - Ongoing analyses of clinical trial samples is adding to the data package/IP position
- Conferring with KOLs/advisory group to map out late-stage clinical development
- Hepatitis B (HBV) remains a promising early stage program. Additional resources are being committed to progress this to partner-ready status
- **Multiple partnering opportunities across Biotron's portfolio**
- **Stock has shown that it moves significantly on the back of good news**
- **Strong financial position; exercise of 12 Dec 2019 \$0.05 options would bring in an additional ~\$5.6 million**



# Financial Information

## Key Financial Metrics

Ticker Code	ASX: BIT
Share Price (28/10/19)	A \$0.075
Market Cap	A \$44 million
12 Month Trading Range	A \$0.055 – 0.30
Shares Outstanding	596.05 million
Options (BITO)	116 million \$0.05 expiry 12/12/19
Cash Position (09/2019)	A \$4.86 million
Monthly Cash Burn (2018)	A \$202,577

## 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



**Biotron**

# BIOTRON LIMITED (ASX:BIT)

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