



Annual General Meeting 20th November 2017



Forward Looking Statements

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Investment Highlights

- Biotron is designing, developing and commercialising a platform of antiviral drugs with a novel mode of action – able to target a wide variety of viral infections
- Pipeline of programs in high value, high need markets
- Progress in clinical lead program (BIT225) provides strong validation for entire platform



Biotron Limited – Snap Shot

BROAD PLATFORM WITH NEW CLASS OF ANTIVIRAL DRUGS

HIV-1 ERADICATION

- Targeting HIV-1 in long-lived reservoirs
- Phase 2 trial in progress during 2017; dosing complete

HEPATITIS C VIRUS (HCV)

- New class of HCV drug
- Phase 2 completed
- Seeking partnerships in China

HBV & EARLY STAGE PROGRAMS

- Pipeline of early stage programs, including:
 - Hepatitis B virus
 - Respiratory viruses
 - Flaviviruses (e.g. Dengue)

**ROBUST CLINICAL VALIDATION – COMPLETED 8 CLINICAL TRIALS WITH
STRONG SAFETY & EFFICACY OUTCOMES**



Key Achievements FY 2017

- Commenced Phase 2 clinical trial of BIT225 and Combination Antiretroviral Therapy (cART) in Feb'17
 - Fully recruited in July '17; Dosing with BIT225/placebo completed; data pending
- Demonstrated significant and accelerated reduction in HIV-1 viral load following addition of BIT225 in humanised mouse study in Feb '17
- Independent Nature publication validated Biotron's approach of targeting HIV-1 in macrophages as a key step in HIV-1 eradication in May '17
- Appointed Lynx Financial as Corporate Advisor for China – assisting with executing HCV regional partnering strategy in June '17
- Raised \$1.56 million via rights issue in June '17
- Received \$1.6 million R&D tax refund in Nov '17 (post-end of FY)



Commercialisation – Key Focus

- Three tactical priorities:
 - Partnering lead clinical program - BIT225 for HIV-1 eradication
 - Partnering one or more preclinical programs – e.g. HBV
 - Execute a regional licensing deal in China - HCV program remains a great opportunity

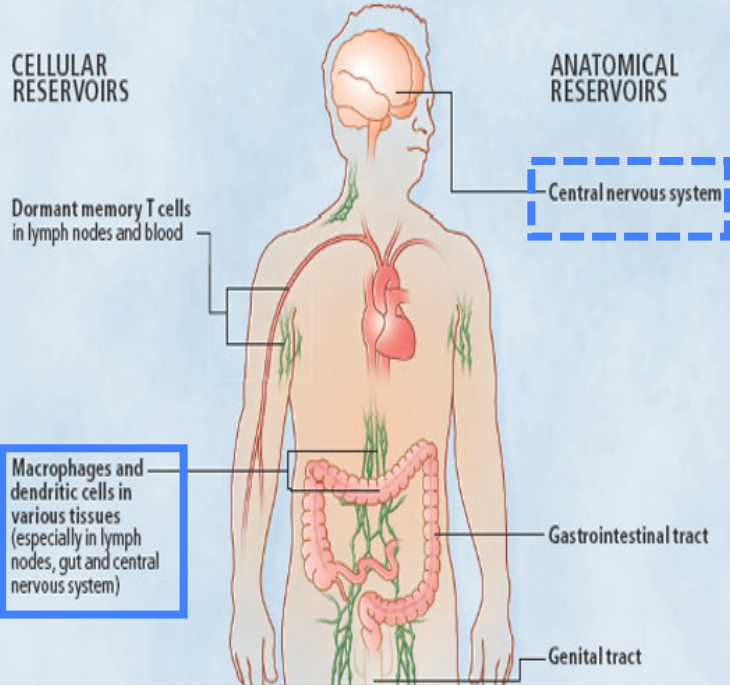


HIV-1 Eradication

[WHERE THE VIRUS HIDES]

HIV'S MANY RESERVOIRS

Beyond lying in wait in dormant memory T cells, HIV may reproduce at a low rate in certain other immune system cells—particularly macrophages and dendritic cells that seem inherently able to ward off immune defenses and anti-HIV drugs to some extent. Further, HIV-infected cells in a few parts of the body may be physically shielded to a degree from the immune system and certain drugs. HIV made in cellular and anatomical reservoirs does not reach the blood readily in aggressively treated patients but might generate a vigorous infection if treatment stops.



Mario Stevenson
Scientific American 299, 78 - 83 (2008)

Current drugs do not eradicate HIV-1 virus

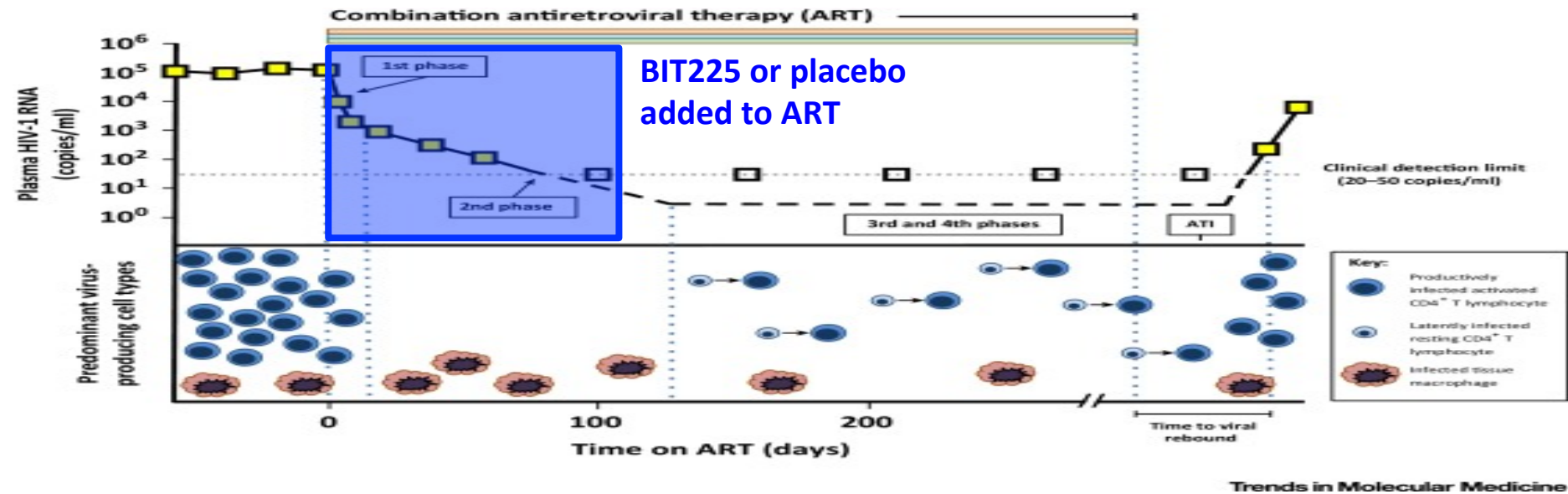
- HIV-1 remains hidden in reservoirs, leading to chronic, life-long infection
 - Invisible to body's immune defenses
 - Not sensitive to anti-HIV-1 drugs
- New mode of actions drugs are needed to eradicate or cure HIV-1 infection

Why is HIV-1 eradication necessary?

- Long-term health implications e.g. HAND, immune activation, etc
- Cost of treatment
 - ~ \$20 billion p.a. world wide
 - Major burden on healthcare systems

BIT225 has potential to be used in combination with other drugs to eradicate HIV-1 reservoirs

HIV-1 Eradication: BIT225-009 Trial



- 36 HIV-1⁺ve, treatment-naïve subjects commencing ART
- Randomised 2:1 (drug:placebo)
- BIT225 or placebo added to ART for first 12 weeks of treatment
- Read-out
 - Impact on virus levels; reduction of immune activation markers
- **Fully recruited; completed dosing with BIT225/placebo; in follow-up period (ART alone)**

HIV-1 Eradication: BIT225-009 Trial

- Fully recruited July; last patient, last dose in mid-October
- Three month follow-up period post-dosing with BIT225/placebo
 - Additional samples collected from patients throughout this next 3 month period
- Post-trial laboratory analyses on samples from treatment period are in progress:
 - Virological Outcomes
 - Immunological Outcomes
- Post-dosing sample data also required to complete the analyses
 - E.g. Any rebound or change in parameters once drug ceased?
- All data is necessary to determine outcome of the trial



Commercialisation: BIT225 HIV-1 Eradication

- Several pharmaceutical companies have active HIV-1 “Cure” Programs
- Identified and qualified potential partners
- Positive outcomes – BIT225 clinical trial - key to progressing commercialisation discussions
- Potential partners have defined their success criteria – we are aligned!
- Communicating trial data as soon as available
- Follow up meetings with potential partners continue



Commercialisation: Preclinical Programs – HBV

- Hepatitis B virus (HBV) therapeutic space has significant interest from pharma & biotech companies
- Biotron's HBV program is eliciting early interest from potential partners
 - *In vitro* data on several candidate compounds includes evidence of reduction of industry recognised markers
 - Novel mechanism is very attractive in combination approaches to treatment of HBV
- Expands Biotron's partnering opportunities – potential for early stage co-development / collaboration agreement



Commercialisation: Regional Licensing – China, HCV Program

- The new HCV drugs (e.g. Solvadi) may cause reactivation of HBV in HCV/HBV coinfecting patients
 - Resulted in US FDA “Black Box” Warning on new HCV drugs
- 30 million HCV-infected people in China, compared to 3-5 million in USA
- 93 million chronically infected with HBV in China, compared to 2.2 million in USA
 - High HCV/HBV co-infection rate in China (estimated to be 10 million)
 - Reactivation of HBV in people undergoing HCV treatment with these new HCV drugs has potential to be a major health & economic issue in China
- BIT225 has been shown in clinical trials to significantly improve clinical outcome in HCV GT1-infected patients in combination with Interferon & Ribavirin (IFN/RBV)
- IFN/RBV have several potential advantages over new HCV drugs in some settings
 - IFN/RBV is significantly cheaper than the new HCV drugs
 - HBV reactivation is less common and less severe in HCV/HBV co-infected patients with IFN/RBV



Commercialisation: Regional Licensing – China, HCV Program

- Seeking partnerships for commercialisation of BIT225 for the treatment of HCV in China
- Appointed a Shanghai-based corporate advisor with extensive experience in cross-border transactions in the healthcare space
- Developed a well qualified prospect list
- Presented to potential licensees – all with capacity to finalise commercial development and launch of BIT225 in China
- Discussions are on-going



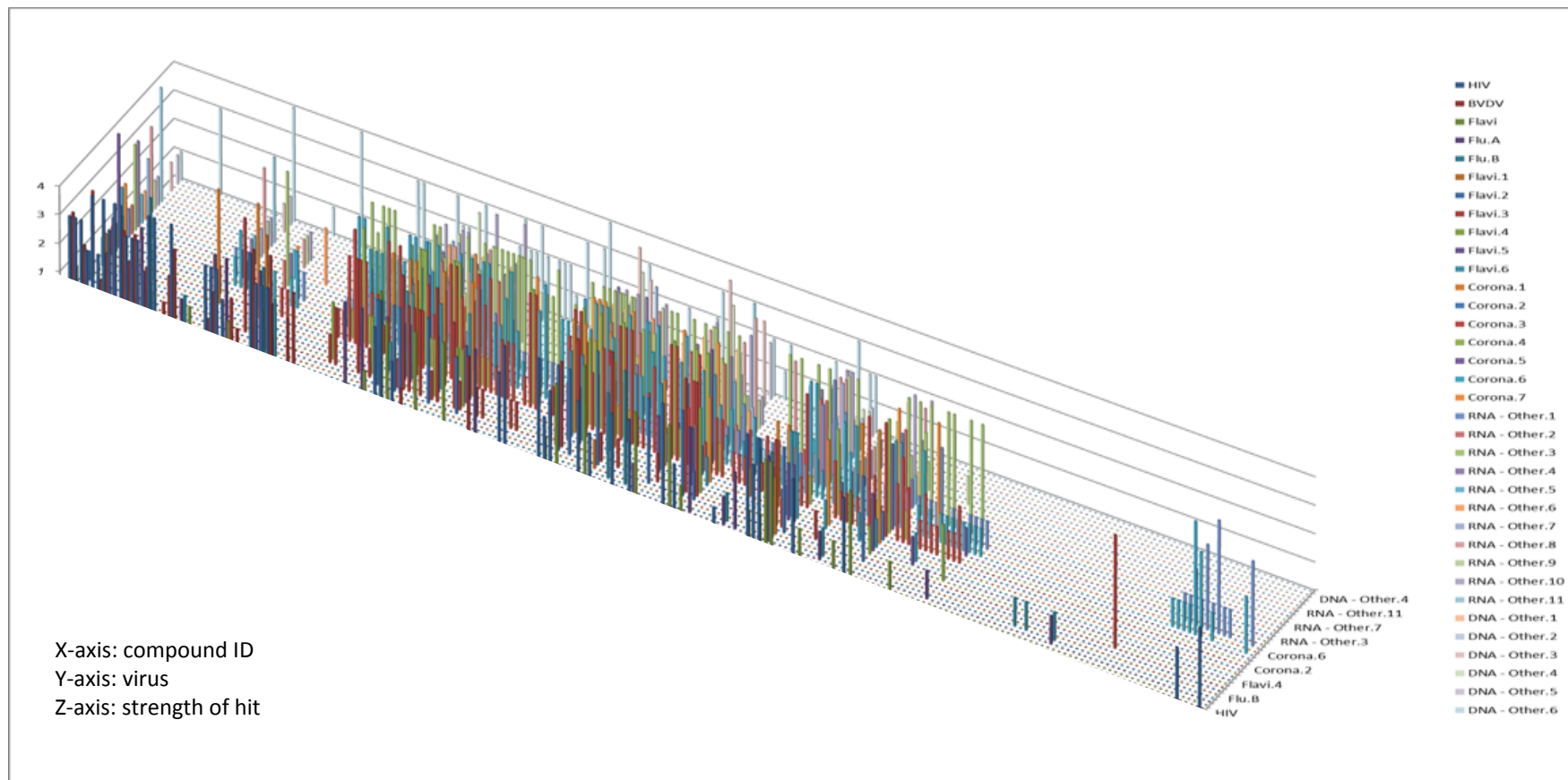
Unlocking Value for Other Virus Targets

Library of compounds designed to target viroporins found in some viruses:

Initially >250 compounds designed and synthesised; library now ~350

OTHER “HITS” IN LIBRARY include:

- Influenza A and B
- Hepatitis B virus (HBV)
- Coronaviruses (Including SARS)
- Epstein-Barr virus (EBV)
- Zika virus
- others



Unlocking Value for Other Virus Targets

Biotron's Viroporin approach enables the targeting of a wide range of viral diseases; examples include:

- Respiratory Viruses such as Respiratory Syncytial Virus (RSV), Influenza, & Coronaviruses (leading cause of "common cold")
- Flaviviruses such as Zika Virus and Dengue
- Transplant viruses such as BK virus
- Epstein Barr virus (EBV) - particular interest in Asia where it is causative agent of Nasopharyngeal Carcinoma

Biotron's Viroporin platform has the potential to become an important tool in the development of antiviral therapies

Potential for establishing early stage collaborations with pharmaceutical companies utilising Biotron's approach



Biotron

Summary

- **HIV Eradication**
 - Engaged with the right potential partners
 - Waiting for data from trial but continue to engage with pharma
- **Preclinical Programs**
 - HBV has promise as a preclinical candidate for joint development. HBV therapeutic space is very hot.
 - BIT225 results validate the platform; potential to facilitate funded developments by partners for “other” viral diseases
- **Regional Licensing**
 - HCV in China remains a significant development opportunity – “cost-conscious” market combined with the high rate of co-infection HCV & HBV requires different approach than used in the USA

Success in any or all of these strategies will be a “company maker” increasing the value for Biotron stakeholders

