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Companies covered: Quarterly Review

| 1 6 | v |
|-----------------------------|----------------------------|
| | Bioshares Portfolio |
| Year 1 (May '01 - May '02) | 21.2% |
| Year 2 (May '02 - May '03) | -9.4% |
| Year 3 (May '03 - May '04) | 70.6% |
| Year 4 (May '04 - May '05) | -16.3% |
| Year 5 (May '05 - May '06) | 77.8% |
| Year 6 (May '06 - May '07) | 17.4% |
| Year 7 (May '07 - May '08) | -35.8% |
| Year 8 (May '08 - May '09) | -7.4% |
| Year 9 (May '09 - May '10) | 50.2% |
| Year 10 (May '10 - May'11) | 45.4% |
| Year 11 (May '11 - May '12) | -18.0% |
| Year 12 (May '12 - May '13) | 3.1% |
| Year 13 (May '13 - May '14) | 26.6% |
| Year 14 (May '14 - May '15) | 23.0% |
| Year 15 (May '15 - May '16) | 33.0% |
| Year 16 (May '16 - May '17) | 16.8% |
| Year 17 (May '17 - May '18) | -7.1% |
| Year 18 (May '18 - May '19) | -2.3% |
| Year 19 (May '19 - May '20) | 39.5% |
| Year 20 (May '20 - Current) | 83.5% |
| Cumulative Gain | 1898% |
| Av. Annual gain (20 yrs) | 20.6% |

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Bioshares

6 January 2021 Edition 875

Delivering independent investment research to investors on Australian biotech, pharma and healthcare companies

Quarterly Review

Biotech Stocks Hold Steady in Dec Quarter

The **Bioshares Index** eased 0.6% in the December quarter, digesting gains in the previous two quarters. The **Bioshares Large Cap Index** posted a modest 2.4% increase for the quarter. These indices were adjusted, with Blackmores (Cap'n: \$1.4 billion) being moved from the Large Cap Index, being replaced by Polynovo (Cap'n: \$2.6 billion).

The **Bioshares Botanical Index** surged 41% in the December quarter, inspired by the easing of regulations for cannabis substances. However, its aggregate capitalisation of \$1.4 billion across 18 companies was still below a high in Q1 2018 of \$1.7 billion.

The Nasdaq Biotech Index, a bellwether index for biotech investors, gained a solid 11.8% over the December quarter, after holding steady in the previous quarter.

What was notable about the December quarter was that it was the strongest quarter for the year for capital raisings, with \$634 million in funds raised, slightly above the \$605 million raised in the June quarter. Two IPOs (Nutritional Growth Solutions and Control Bionics) and one PO (Hexima) accounted for \$25 million in funds raised.

December quarter capital raisings were driven less by the demand for buffer capital sought by companies in the June quarter, and more by surging share prices, providing biotech companies with an incentive to access capital. The top line measure of the Bioshares Index's performance was significantly affected by Mesoblast's 56% slump for the quarter. When adjusted for this specific decrease, the Bioshares Index increased by 8.7% for the quarter, thus showing a stronger underlying growth in prices.

All up, \$1.7 billion was raised over CY2020, compared to \$1 billion in CY2019 and \$751 billion in CY2018.

New listings in the pipeline include Chimeric Therapeutics, EZZ Life Science Holdings and Singular Health. Other possible listings in 2021 include Eyetelligence, Firebrick Pharma and BCAL Diagnostics. **Bioshares**

Index Performance by Quarter (Change from previous Qtr)

| | Q4 2019 | Q1 2020 | Q2 2020 | Q3 2020 | Q4 2020 |
|----------------------------|---------|---------|---------|---------|---------|
| Bioshares Index | -1.0% | -27.0% | 36.7% | 15.3% | -0.6% |
| Bioshares Large Cap Index | 15.4% | 6.3% | 0.2% | -2.9% | 2.4% |
| Bioshares Botanicals Index | -42.9% | -34.6% | 12.9% | -7.3% | 40.6% |
| Nasdaq Biotech Index | 21.1% | -10.4% | 26.7% | -0.9% | 11.8% |
| ASX 300 Index | 0.7% | -23.7% | 14.6% | -1.5% | 12.1% |

Note: PNV added to, BKL removed from Large Cap Index

Publication Schedule – January

Bioshares 876 will be emailed in the week beginning January 24, 2021. *Bioshares* is published 48 times a year.

| Company | Code | Cap. \$m | Change - Quarter | Change - Year | Price 31/12/20 |
|-------------------------|------|-------------|---------------------|------------------|-------------------|
| Rhythm Biosciences | RHY | 176 | 264.6% | 573.1% | \$0.875 |
| Avecho Biotechnology | AVE | 46 | 262.5% | 625.0% | \$0.029 |
| Neurotech International | NTI | 25 | 246.2% | 181.3% | \$0.045 |
| Allegra Orthopeadics | AMT | 37 | 133.3% | 75.0% | \$0.350 |
| Telix Pharmaceuticals | TLX | 1,060 | 127.7% | 143.9% | \$3.780 |
| Race Oncology | RAC | 227 | 122.9% | 821.1% | \$1.750 |
| Asian American Med. Grp | AJJ | 22 | 116.7% | -18.8% | \$0.065 |
| Imugene | IMU | 474 | 112.8% | 212.5% | \$0.100 |
| Imagion Biosystems | IBX | 145 | 85.9% | 480.0% | \$0.145 |
| Impedimed | IPD | 135 | 83.8% | -24.2% | \$0.125 |

Bioshares Index - Top 10 Outperformers - Dec Quarter

Outperformers

Rhythm Biosciences headed the leader board for top performers in the December quarter with a 265% increase. The company reported the performance for an new version of its colorectal cancer screening test ColoSTAT, while at the same time experiencing COVID-19 related challenges with recruitment for its most important program, a >1,000 patient clinical trial, which is now scheduled to be completed in mid 2022. Without meaningful clinical trial progress, the stock is likely to weaken in 2021.

Avecho Biotechnology performed strongly off a low base (up 263%) and low capitalisation (now \$46 million). The former Phosphagenics initiated a cannabis drug development program, aiming to apply its alpha-tocopherol technology (TPM) to improve the bioavailability of cannabinoids, reporting data that showed its TPM formulations could increase drug pharmacokinetics up to ~40 times. Alpha-tocopherol (Vitamin E) is a lipid-soluble molecule.

Neurotech International (+246%) is another company taking a new direction in the area of medicinal cannabis. It has been assessing selected cannabis strains for their anti-inflammatory and neuro-modulatory properties, and is planning on commencing clinical studies in Q1 2021.

Allegra Orthopeadics' share price recovery (+133%) was likely aided by positive results from the mechanical stress testing of a new spinal cage device.

There were multiple factors at play in lifting **Telix Pharmaceuticals'** share price 128% higher for the quarter, including the signing of a license and partnership with China Grand Pharmaceuticals for the greater China market, and the receipt of FDA advice for its Phase III prostate cancer study of TLX591, amongst others. The China deal saw CGP make a US\$25 million equity investment alongside a US\$25 million upfront payment. While the breadth of programs in Telix brings diversification, it also means the company will have challenges to reach all of its milestones in the medium term.

Race Oncology's share price increased 123% for the quarter, driven by data from studies completed at the University of Newcastle, suggesting competitive advantages for bistantrene over doxorubicin and epirubicin.

| Riccharos | Index - Bottom | 10 | Underperformers | _ | Dec Quarter |
|------------|----------------|----|-----------------|---|-------------|
| DIUSIIAIRS | muex - Dollom | 10 | underperiormers | _ | Dec Quarter |

| Company | Code | Cap. \$m | Change - Quarter | Change - Year | Price 31/12/20 |
|-----------------------|------|-------------|---------------------|------------------|-------------------|
| Mesoblast | MSB | 1,322 | -55.7% | 8.2% | \$2.250 |
| Respiri | RSH | 94 | -38.1% | 35.4% | \$0.130 |
| Alterity Therapeutics | ATH | 27 | -38.0% | 55.0% | \$0.031 |
| Cynata Therapeutics | CYP | 95 | -33.5% | -34.1% | \$0.685 |
| Medibio | MEB | 11 | -33.3% | -20.0% | \$0.008 |
| Opthea | OPT | 648 | -32.4% | -35.6% | \$1.920 |
| Bluechiip | BCT | 26 | -31.3% | -71.6% | \$0.044 |
| Avita Medical | AVH | 530 | -28.4% | -23.4% | \$4.940 |
| Invex Therapeutics | IXC | 48 | -25.5% | -16.9% | \$0.715 |
| Dimerix | DXB | 46 | -23.0% | 80.8% | \$0.235 |

Underperformers

Mesoblast's share price was distinctively volatile in the second half of 2020, slumping 37% in August following the FDA's release of its review package for remestemcel-L for the treatment pediatric GvHD. This loss was recovered until the FDA placed a Clinical Hold on the application in October, precipitating another sell-off (-42%). The stock recovered again in November helped by a deal with Novartis. However, in December the company announced that its Phase III heart failure study did not meet its primary endpoint, and that its COVID-19 ARDS trial was being halted, as it was " not likely to meet the 30-day mortality reduction endpoint at the planned 300 patient enrolment." Mesoblast finished down 55.7% for quarter, and up 8.2% for the year.

Respiri's 38% quarterly decline followed a strong gain in the previous quarter of 136%, indicative of profit taking at work, and following a \$12.5 million capital raise. The company is developing a wheeze detection technology to aid in the management of asthma.

Alterity Therapeutics' share price was impacted by a \$35 million capital raising, with a lack of clinical news flow to offset the dilutive effect of the capital raise. A Phase II study of ATH434 is not expected to begin enrolling patients until H2 2021.

Cynata Therapeutics experienced a softer share price (-33.5%) on the back of a 69% increase the previous quarter. A recently completed \$15 million capital raise means the company is funded to expand its pipeline of opportunities for cell therapy products manufactured using its Cymerus technology. This is significant because it can deliver a consistent drug product, which is an issue for some sother stem cell therapy approaches.

Medibio has been a troubled stock since late 2018, trading around the 0.1 cent mark throughout 2020. A diminished ability to access capital may mean the company could become a vehicle for new programs and investors in 2021.

Opthea's share price decline of 32.4% belies the company's significant progress made during the year. The company listed on the Nasdaq, raising \$181 million in the process. This was the largest of any capital raising by an Australian biotech in 2020. The company is funded to move ahead with the Phase III development of OPT-302. **Bioshares**

| company | Code | Investment Manager or Investor | Type of Raising | Funds Raised (\$M |
|-----------------------------|------------|--|------------------------|-------------------|
| | | • | | |
| Opthea | OPT | Citigroup / SVB Leerink / Oppenheimer / Truist Securities | Placement | \$181.0 |
| PYC Therapeutics | PYC | | Rights Issue (Insto) | \$30.2 |
| PYC Therapeutics | PYC | | Rights Issue (Retail) | \$5.4 |
| PYC Therapeutics | PYC | | Placement | \$5.0 |
| Telix Pharmaceuticals | TLX | China Grand Pharmaceutical and Healthcare Holdings | Placement (Investment) | \$35.4 |
| Medavisor | MDR | | Placement | \$23.5 |
| Medavisor | MDR | | Rights Issue (Insto) | \$11.5 |
| Medavisor | MDR | | Rights Issue (Retail) | \$3.2 |
| Alterity Therapeutics | ATH | MST Financial | Placement | \$35.0 |
| Imricor | IMR | Moelis Australia Advisory | Placement | \$28.5 |
| Imricor | IMR | | SPP | \$1.6 |
| Immuron | IMM | Australian Ethical, Perennial Value Management, Regal Funds Management,Firetrail Investments, Ridgeback Capital Bell Potter / Taylor Collison | Placement | \$29.6 |
| Medical Developments Int. | MVP | Bell Potter | Placement | \$25.0 |
| Noxopharm | NOX | Canaccord Genuity | Placement | \$23.0 |
| Eixinol Global | EXL | Bell Potter / MST Financial | Placement | \$8.2 |
| Elixinol Global | EXL | | SPP | \$12.3 |
| Cynata | CYP | Bioscience Managers Translation Fund Number 1 | Placement | \$15.0 |
| Respiri | RSH | Blue Ocean Equities | Placement | \$12.5 |
| Creso | CPH | EverBlu Capital | Placement | \$8.9 |
| Antisense Therapeutics | ANP | Wilsons Corporate Finance / Morgans | Placement | \$7.3 |
| Antisense Therapeutics | ANP | | SPP | \$1.2 |
| IMEXHS | IME | | Placement | \$8.3 |
| Bod Australia | BDA | Bell Potter | Placement | \$8.0 |
| Acintogen | ACW | Bell Potter | Placement | \$6.0 |
| Acintogen | ACW | | Rights Issue | \$1.36 |
| Patrys | PAB | Lazarus Corp | Placement | \$2.5 |
| Patrys | PAB | | Rights Issue | \$4.8 |
| Vectus Biosystems | VBS | Gleneagle Securities | Placement | \$7.0 |
| Next Science | NXS | Lang Walker | Placement | \$2.0 |
| Next Science Acrux | NXS ACR | Bioscience Managers Translation Fund Number 1 | SPP Placement (T1) | \$5.0 \$6.6 |
| Althea Group | AGH | Dioscience Managers translation fund futilitier f | Placement | \$6.0 |
| Imagion Biosystems | IXB | Evolution Capital Advisors | Placement | \$6.0 |
| Proteomics International | PIQ | Euroz Hartleys | Placement | \$6.0 |
| Exopharm | EX1 | Canary Capital / Alto Capital | Placement (T2) | \$4.3 |
| AnteoTech | ADO | | Options Exercise | \$3.9 |
| Cann Global | CGB | | Placement | \$3.75 |
| Anatara | ANR | | Placement | \$1.67 |
| Anatara | ANR | | SPP | \$1.40 |
| Adherium | ADR | Viburnum | Convertible Note | \$3.0 |
| SUDA Pharmaceuticals | SUD | | Placement | \$2.8 |
| THC Global | THC | | Placement | \$2.8 |
| Tali Digital | TD1 | Brand Capital International | Placement (Investment) | \$2.7 |
| Neurotech International | NTI | Max Capital | Placement | \$2.5 |
| Bionomics | BNO | | Rights Issue (Retail) | \$2.2 |
| Dorsavi | DVL | | Rights Issue | \$2.2 |
| Lifespot Health | LSH | MID Wealth Pty Ltd / Cannvalate Pty Ltd | Placement | \$1.68 |
| Anteris Tech | AVR | | Placement | \$1.1 |
| | | | | |
| Control Bionics | CBL | Morgans | IPO (60 cps) | \$15.0 |
| lutrional Grow th Solutions | NGS | Baker Young | IPO (20 cps) | \$7.0 |
| Hexima | HXL | Canaccord Genuity | PO (20 cps) | \$3.0 |
| otal raised in Q4 2020 | | | | \$633.6 |
| otal raised in Q3 2020 | | | | \$387.4 |
| otal raised in Q2 2020 | | | | \$605.2 |
| | | | | \$74.3 |

| Company | Code | Product/Application | Event |
|-----------------------------|------|--|--|
| Adalta | 1AD | AD-214 (fibrosis) | Phase I safety study; 34 healthy volunteers treated at doses ranging from 0.01 mg/kg to 10 mg/kg |
| Amplia Therapeutics | ATX | AMP945 (FAK inhibitor) (fibrotic conditions) | Dosed first patient in an up-to-64 pt Phase I safety study |
| Avecho Biotechnology | AVE | oral cannabidiol (CBD) TPM formulation | Commenced participation in 3,000 pt observational study |
| Bionomics | BNO | BNC210 (tablet formulation) (PTSD) | Commenced 7 day PK study |
| Botanix Pharmaceuticals | BOT | BTX1801 (synthetic cannabidiol) (prevention of surgical site infections) | Completed Phase lla study of two nasally applied formulations; 60 healthy volunteers; tw ice daily admin; results expected in early 2021 |
| Cyclopharm | CYC | Technegas (lung imaging agent - structural ventilation) | Independent Data Monitoring Committee said Phase III trial had met the trial's primary endpoint, and that the trial could be concluded. (204 of 240 pts) |
| Emvision | EMV | EMV ision device (stroke classification) | Met endpoint of pilot study in 30 patients, 21 ischaemic and 9 haemorrhagic stoke pts, w ith overall accuracy of betw een 93.3% and 96% respectively |
| Exopharm | EX1 | Plexoval OS (naïve exosome) | Commenced 15 pt, Phase I trial; randomised, double blinded, placebo-controlled study; assessing safety and biological activity of Plexaris OS in w ound healing follow ing a skin punch biopsy in healthy volunteer adults |
| Heramed | HMD | Herabeat device (foetal heart rate monitor) | Joondaloop study confirmed accuracy of device, compared to hospital grade CTG machine, and confirmed ease of use and user satisfaction with 81 expectant mothers |
| Incannex | HL | IHL-42X (10mg THC combined with 200mg mineral supplement (obstructive sleep apnoea) | Commenced randomised, double-blind, placebo-controlled, dose-ranging Phase llb study; three dose levels |
| Immutep | IMM | eftilagimod alpha (IMP321) (in combination w ith paclitaxel) (metastatic breast cancer) | At 60% of events in 226 pt study, reported statistically significant survival benefit in pre-defined patient subgroup; +7.1 months for pts under 65, +9.4 months for patients with low monocyte counts |
| Imugene | IMU | PD1-Vaxx (IMU-201) (B-cell epitope and T-cell epitope construct) (PD-L1 expressing non-small cell lung cancer (NSCLC)) | Completed enrollment in lose dose cohort for Phase I study |
| Kazia Therapeutics | KZA | Cantrixil (TRX-E-002-1) (a benzopyran)(persistent or recurrent ovarian cancer) | 25 pts; determined maximum tolerated dose to be 5 mg/kg |
| Medlab Clinical | MDC | Nanabis (CBD:THC) (advanced cancer pain) (oro-buccal spray) | Has recruited 668 of 2,000 pts in an observational study |
| Mesoblast | MSB | chronic heart failure) | Did not meet primary endpoint for 566 pt Phase III trial (537 pts for final readout), w hich w as time to recurrent non-fatal decompensated heart failure major adverse cardiac events (HF-MACE) that occur prior to the first terminal cardiac event (TCE) |
| Mesoblast | MSB | remestemcel-L (mesenchymal stromal cells) (ventilator-dependent patients with moderate to severe acute respiratory distress syndrome (ARDS) due to COVID-19 infection) | "DSMB reported that there were no safety concerns and noted that the trial is not likely to meet the 30-day mortality reduction endpoint at the planned 300 patient enrolment." 223 pts had been enrolled. |
| Orthocell | 000 | Celgro (collagen medical device) (nerve regeneration) | Reported completion of enrollment of 19 pts with 35 nerve repairs. Reported 24 month data for 10 pts (19 nerves) and function restored for 17 of 19 nerve repairs) |
| Paradigm Pharmaceuticals | PAR | pentosan polysulfate sodium (PPS) (Mucopolysaccharidosis type I) | Dosed first patient in open label, 10 pt Phase II trial |
| Telix Pharmaceuticals | TLX | TLX101 (¹³¹ HPA) (with external beam radiation therapy) (recurrent glioblastoma multiforme) | Reported on 8 pts from first dosing cohort in 44 pt Phase I/II study; "PFS of 4.2 months compared to typically 2-2.5 months in this second-line patient population" |
| Telix Pharmaceuticals | TLX | TLX250-CDx (⁸⁹ Zr-girentuximab) (renal cancer diagnostic imaging) | Completed enrollment in Phase I study in Japan (40 pts) |

Selected Clinical Trial Developments - Q4 2020

Bioshares Model Portfolio (6 January 2021)

| Company | Code | Price (current) | Price added to portfolio | Recommend- ation | Cap'n (\$M) | Date added |
|--------------------------|------|--------------------|-----------------------------|---------------------|----------------|----------------|
| Clinuvel Pharmaceuticals | CUV | \$21.23 | \$20.31 | Buy | \$1,049 | November 2020 |
| Opthea | OPT | \$2.030 | \$0.160 | Spec Buy A | \$685 | November 2014 |
| Cyclopharm | CYC | \$2.550 | \$1.35 | Spec Buy A | \$202 | September 2019 |
| Cogstate | CGS | \$1.080 | \$0.24 | Spec Buy A | \$184 | April 2019 |
| Immutep | IMM | \$0.405 | \$0.320 | Spec Buy A | \$197 | March 2019 |
| Micro-X | MX1 | \$0.380 | \$0.38 | Spec Buy A | \$137 | May 2017 |
| Cynata Therapeutics | CYP | \$0.690 | \$0.70 | Spec Buy B | \$86 | December 2020 |
| Dimerix | DXB | \$0.235 | \$0.09 | Spec Buy A | \$46 | December 2018 |
| Pharmaxis | PXS | \$0.094 | \$0.260 | Spec Buy B | \$37 | December 2016 |
| Patrys | PAB | \$0.024 | \$0.01 | Spec Buy B | \$43 | July 2020 |
| Acrux | ACR | \$0.165 | \$0.31 | Spec Buy A | \$27 | July 2017 |
| Adalta | 1AD | \$0.145 | \$0.07 | Spec Buy B | \$36 | May 2020 |

Stocks Removed from Bioshares Portfolio in TTM

| Date removed | Stock |
|--------------|---------------|
| October 2020 | RNO, SOM, VHT |
| August 2020 | πx |

Portfolio Changes – 6 January, 2021

IN:

No changes

OUT:

No changes

The ASX-Listed Life Sciences Sector

December 31, 2020: Capitalisation \$207.7 billion, 148 companies

Bioshares Large Cap. Index

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 31/12/20 |
|-------------|------|-------------|--|---------------------|------------------|-------------------|
| CSL | CSL | 128,840 | Manufactures pharmaceutical products including vaccines and human plasma fractions | -1.3% | 2.7% | \$283.18 |
| Resmed Inc. | RMD | 39,460 | Manufactures diagnostic and treatment equipment for sleeping disordered breathing | 14.0% | 24.3% | \$27.23 |
| Cochlear | СОН | 12,425 | Manufactures cochlear hearing implants | -4.5% | -15.9% | \$189.00 |
| Polynovo | PNV | 2,565 | Developing novel polymer-based products for treating wounds and burns | 75.6% | 97.0% | \$3.880 |
| Nanosonics | NAN | 2,417 | Developing a novel disinfection technology, the first product is a point of care ultrasound probe disinfection unit, branded Trophon EPR | 41.4% | 26.5% | \$8.03 |

Capitalisation Total

185,708

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 31/12/20 |
|--------------------------|------|-------------|--|---------------------|------------------|-------------------|
| Blackmores | BKL | 1,461 | Manufactures vitamin, mineral and herbal supplements and skin & hair products in Australia and N.Z. | 19.8% | -10.9% | \$75.55 |
| Mesoblast | MSB | 1,322 | Developing cellular medicines to treat advanced heart failure, chronic low back pain and acute graft versus host disease | -55.7% | 8.2% | \$2.250 |
| Clinuvel Pharmaceuticals | CUV | 1,103 | Markets an analogue of the alpha-MSH protein, named Scenesse, as a photo-protective agent | -4.2% | -21.5% | \$22.320 |
| Telix Pharmaceuticals | TLX | 1,060 | Development of molecularly-targeted radiation (MTR) therapies and diagnostics | 127.7% | 143.9% | \$3.780 |
| Sigma Pharmaceuticals | SIG | 652 | Pharmaceutical manufacturing and wholesaling | 4.2% | 6.0% | \$0.615 |
| Opthea | OPT | 648 | Developing OPT-302 to treat wet AMD (an eye disease) | -32.4% | -35.6% | \$1.920 |
| 4D Medical | 4DX | 639 | Commercialising a lung function imaging technology (XV) which uses existing x-ray imaging systems combined with image processing methods to image the lung in motion | 42.9% | | \$2.430 |
| Starpharma Holdings | SPL | 635 | Developer of pharmaceutical chemical scaffolds known has 'dendrimers' | 4.3% | 29.3% | \$1.565 |
| API | API | 606 | Pharmaceutical wholesaler | 17.1% | -8.2% | \$1.230 |
| Paradigm Biopharm. | PAR | 576 | Developing pentosan polysulphate sodium to treat bone marrow oedema, joint pain and mucopolysaccharidosis type I | -3.8% | -13.0% | \$2.550 |
| Mayne Pharma Group | MYX | 550 | Manufactures, develops and markets generic drugs, with operations in Australia and the USA | -12% | -21% | \$0.345 |
| AFT Pharmaceuticals | AFP | 532 | Development and sale of pharmaceuticals in Australasia and Rest-of-World | 9.9% | 64.2% | \$5.090 |
| Avita Medical | AVH | 530 | Markets ReCell, a skin repair product. Redomiciled to the US. Now Nasdaq listed and trades as CDIs | -28.4% | -23.4% | \$4.940 |
| Imugene | IMU | 474 | Developing two B-Cell cancer vaccines, HER-Vaxx and PD1- Vaxx, and an oncolytic virus technology, CF33 | 112.8% | 212.5% | \$0.100 |

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 31/12/20 |
|--------------------------------|------|-------------|---|---------------------|------------------|-------------------|
| PYC Therapeutics | PYC | 466 | Developing VP-001 to treat retinitus pigmentosa | -8.1% | 137.1% | \$0.147 |
| Medical Developments | MVP | 464 | Commercialising the Penthrox inhaler for temporary pain relief. Used widely in ambulances across Australia. | 26.5% | -23.7% | \$6.680 |
| Volpara Health Technologies | VHT | 360 | Markets breast density assessment tools and analytics, for use with breast x-ray screening programs | 10.0% | -21.6% | \$1.435 |
| Aroa Biosurgery | ARX | 346 | Manufacture and sale of wound healing and soft tissue reconstruction products | -14.5% | | \$1.150 |
| Mach 7 Technologies | M7T | 293 | Development and sales of an enterprise imaging management platform | 12.6% | 79.9% | \$1.250 |
| Genetic Signatures | GSS | 287 | Development and sale of molecular diagnostics (MDx) kits and products. | 17.5% | 95.1% | \$2.010 |
| Clovercorp | CLV | 277 | Development and production of omega-3 food additives from tuna oil | -18.4% | -38.3% | \$1.665 |
| Immutep | IMM | 269 | Developing immuno-oncology drug candidates IMP761 and IMP321 (eftilagimod alpha) | 66.0% | 59.6% | \$0.415 |
| Imricor | IMR | 260 | Design, manufacture and sales of MRI-compatible products for cardiac ablation procedures to treat arrhythmias | -13.1% | | \$2.260 |
| Next Science | NXS | 243 | Commercialisation of anti-biofilm products | -0.4% | -33.5% | \$1.250 |
| Race Oncology | RAC | 227 | Completing the development of a chemotherapy drug, called Bisantrene, which was the subject of more than 40 phase II clinical studies during the 1980s and 1990s. | 122.9% | 821.1% | \$1.750 |
| Emvision Medical Devices | EMV | 219 | Exploiting low energy non-ionising microwave radiation to create 3D images, with the goal of developing a device to support the diagnosis of the two main types of stroke | 14.3% | 324.5% | \$3.120 |
| Cyclopharm | СҮС | 198 | A nuclear medicine company that markets the Technegas lung imaging system | 3.7% | 111.9% | \$2.500 |
| AnteoTech | ADO | 196 | Developer of a biological coatings technology that can be applied to immunoassays, bio-separations, drug delivery and other medical devices | 31.3% | 377.3% | \$0.105 |
| Probiotec | РВР | 188 | Manufacturer, marketer and distributor of a range of over the counter (OTC) pharmaceuticals, complementary medicines and speciality ingredients | 34.8% | 21.2% | \$2.400 |
| Cogstate | CGS | 187 | Markets cognitive performance diagnostic products | 54.9% | 182.1% | \$1.100 |
| Alcidion | ALC | 183 | Specialist health IT solution provider | 32.1% | 0.0% | \$0.185 |
| Recce | RCE | 183 | Development of broad spectrum antibiotics | -7.9% | 193.1% | \$1.055 |
| Rhythm Biosciences | RHY | 176 | Developing Colostat, a blood test for the early detection of colorectal cancer | 264.6% | 573.1% | \$0.875 |
| Somnomed | SOM | 174 | Markets oral devices for the treatment of sleep apnea and snoring | -7.9% | -28.3% | \$2.100 |
| Atomo Diagnostics | AT1 | 172 | Manufactures rapid diagnostic test devices for OEM customers | -18.7% | 0.0% | \$0.305 |
| Neuren Pharmaceuticals | NEU | 151 | Developing neuroprotective therapeutics | 16.3% | -48.2% | \$1.285 |
| Imagion Biosystems | IBX | 145 | Developing MagSense, a diagnostic technology which exploits the principles of superparamagnetic relaxometry | 85.9% | 480.0% | \$0.145 |
| Impedimed | IPD | 135 | Markets products that aid the diagnosis of secondary lymphoedema, muscle wasting and other disorders | 83.8% | -24.2% | \$0.125 |
| Medadvisor | MDR | 128 | Medication adherence software platform company | -17.4% | -1.4% | \$0.355 |

Page 7

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 31/12/20 |
|--------------------------|------|-------------|---|---------------------|------------------|-------------------|
| Micro-X | MX1 | 128 | Development of a mobile medical x-ray imager for hospitals, a version for deployed military use and a mobile security back -scatter imager | 51.1% | 77.5% | \$0.355 |
| Botanix Pharmaceuticals | вот | 122 | Developing BTX1503 for the treatment of acne. BTX1503 combines synthetic cannabidiol with a transdermal drug delivery system, Permetrex. | 31.6% | 52.4% | \$0.125 |
| Kazia Therapeutics | KZA | 110 | Developing GDC-084 for the treatment of glioblastoma multiform (a brain cancer) | 20.8% | 93.3% | \$1.160 |
| Resonance Health | RHT | 107 | Markets FerriScan, a non-invasive tool for measuring liver iron levels | 45.5% | 6.7% | \$0.240 |
| Bionomics | BNO | 107 | Discovery and development of drugs to treat CNS diseases | 3.6% | 85.9% | \$0.145 |
| Noxopharm | NOX | 105 | Developing a cancer treatment, NOX66, a formulation of idronoxil, which targets NADH oxidase 2. | 25.6% | 75.0% | \$0.490 |
| Oncosil Medical | OSL | 101 | Developing Oncosil, a brachytherapy for pancreatic cancer and liver cancer | -7.7% | -29.4% | \$0.120 |
| Cynata Therapeutics | СҮР | 95 | Stell cell technology company aiming to produce unlimited uniform, pharmaceutical grade MSCs from a single donor. | -33.5% | -34.1% | \$0.685 |
| Immuron | IMC | 94 | Sales and development of hyper-immune bovine colostrum products for therapeutic use | 66.0% | 59.6% | \$0.415 |
| Respiri | RSH | 94 | Respiratory and pulmonary devices company. Markets Airsonea, an ehealth product | -38.1% | 35.4% | \$0.130 |
| SDI | SDI | 93 | Manufacture & distribution of amalgam (fillings) & other dental materials and product R&D | -0.6% | -6.0% | \$0.785 |
| Compumedics | CMP | 89 | Develops, manufactures and markets sleep diagnostic and monitoring equipment. | 16.3% | -37.5% | \$0.500 |
| Painchek | РСК | 87 | Commercialising a smartphone app which uses facial recognition technology to detect indications of pain. TGA cleared and CE Marked. | -11.5% | -59.5% | \$0.077 |
| Proteomics International | PIQ | 83 | Provider of protein chemistry analytical services. Seeking to commercialise a diabetic kidney disease diagnostic. | 52.9% | 194.4% | \$0.795 |
| Orthocell | occ | 83 | Developing and marketing regenerative medicine products | 12.5% | -8.2% | \$0.450 |
| Exopharm | EX1 | 79 | Development of technology for improving the purification of exosomes, which are extra-cellular vesicles which transport bioactive molecules through out the body. | 81.0% | 119.2% | \$0.570 |
| Control Bionics | CBL | 78 | Design, manufacture and sale of wireless wearable electromyography (EMG) based augmentative and alternative communication (AAC) technology | 56.7% | | \$0.940 |
| Universal Biosensors | UBI | 77 | Development, manufacture and commercialisation of a range of in vitro diagnostic tests for point-of-care use | 58.2% | 128.9% | \$0.435 |
| Memphasys | MEM | 75 | Developing a sperm separation technology, SpermSep | 0.0% | 100.0% | \$0.100 |
| Antisense Therapeutics | ANP | 75 | Developing antisense compounds to treat multiple sclerosis and Duchenne Muscular Dystrophy | -10.3% | 44.4% | \$0.130 |
| Osteopore | osx | 61 | Manufacture of 3D bioresorbable implants. Three products are FDA cleared and CE Marked for cranio-facial indications | -3.7% | -28.8% | \$0.520 |
| ResApp Health | RAP | 59 | Developing digital healthcare solutions to diagnose and manage respiratory conditions | -19.0% | -65.3% | \$0.085 |

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 31/12/20 |
|------------------------|------|-------------|---|---------------------|------------------|-------------------|
| TBG Diagnostics | TDL | 59 | Development of HLASSA and SBT diagnostic kits and related services | 0.0% | 900.0% | \$0.270 |
| Genetic Technologies | GTG | 58 | Markets cancer risk tests | -12.5% | 40.0% | \$0.007 |
| Invion | IVX | 55 | Development of Photosoft, a photosensitiser derived from chlorophyll, which it is believed can accumulate selectively in tumours and be manipulated for therapeutic purposes. | 0.0% | -23.1% | \$0.010 |
| Biotron | BIT | 55 | Developing a drug to treat HIV. Testing drug library against SARS-CoV-2 | -14.3% | 50.0% | \$0.078 |
| BARD1 Life Sciences | BD1 | 54 | Developing cancer diagnostics and therapies. Completed 30:1 consolidation. | -12.8% | -33.3% | \$0.680 |
| Vita Life Sciences | VLS | 54 | Development, manufacture and distribution of prescription and OTC medicines as well as complementary and alternative medicines, dietary supplements and health foods | 14.9% | 49.3% | \$1.000 |
| Optiscan Imaging | OIL | 53 | Manufactures confocal microscopes for clinical diagnosis | 8.2% | 176.3% | \$0.105 |
| Nova Eye Medical | EYE | 51 | Developing devices devices to treat glaucoma | 7.6% | -54.2% | \$0.355 |
| Invex Therapeutics | IXC | 48 | Developing a formulation of the diabetes drug exanatide to treat idiopathic intracranial pressure and other indications | -25.5% | -16.9% | \$0.715 |
| CardieX | CDX | 48 | Development of wearable blood pressure measurement devices | 14.3% | 100.0% | \$0.056 |
| IMEXHS | IME | 48 | Markets a radiology and imaging platform, in Latin and South America, and uses SaaS and PaaS revenue models. Completed 50:1 consolidation. | -10.6% | | \$1.610 |
| Dimerix | DXB | 46 | Developing a combination therapy, DMX200, to treat chronic kidney disease. | -23.0% | 80.8% | \$0.235 |
| Avecho Biotechnology | AVE | 46 | Commercialising a drug delivery system | 262.5% | 625.0% | \$0.029 |
| Star Combo Pharma | S66 | 45 | Develops, manufactures and markets nutritional and OTC products | -1.5% | -32.0% | \$0.330 |
| IDT Australia | IDT | 44 | Manufacturer of pharmaceutical ingredients to international standards for major pharmaceutical groups. | 5.7% | 32.1% | \$0.185 |
| Patrys | PAB | 43 | Developing novel antibody therapies for a range of oncology indications. Focussed on 3E10, a cell penetrating antibody. | 60.0% | 20.0% | \$0.024 |
| Prescient Therapeutics | PTX | 43 | Developing compounds to treat various cancers | -1.5% | 9.8% | \$0.067 |
| Rhinomed | RNO | 41 | Developing nasal stent technologies with applications for sport performance, sleep and drug delivery | -3.0% | -23.8% | \$0.160 |
| TALI Digital | TD1 | 39 | Software company developing tools for assessment and improvement of attention in children. Formerly Novita Healthcare. | 80.8% | -7.8% | \$0.047 |
| Vectus Biosystems | VBS | 38 | Developing an anti-fibrotic compound, VB0004, with applications in heart and kidney disease | 21.2% | 103.4% | \$1.200 |
| Regeneus | RGS | 38 | Commercialisation of autologous adipose derived stem cells and factors. Markets HiQCell for human use and CryoShot for veterinary use. | | 43.7% | \$0.125 |
| Oventus | OVN | 37 | Developing an oral appliance to treat sleep apnea and snoring | 3.5% | -52.0% | \$0.235 |

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 31/12/20 |
|---------------------------------|------|-------------|--|---------------------|------------------|-------------------|
| Pharmaxis | PXS | 37 | Developer of Bronchitol, which is approved in Europe and the USA for the management of cystic fibrosis. Developing a suite of compounds from amine oxidase platform. | 9.4% | -41.9% | \$0.093 |
| Allegra Orthopeadics | AMT | 37 | A developer and manufacturer of prosthetic implants and medical devices. | 133.3% | 75.0% | \$0.350 |
| Osprey Medical | OSP | 36 | Markets DYEVERT, a device which reduces the amount of dye needed in imaging procedures | -15.4% | -26.7% | \$0.022 |
| LBT Innovations | LBT | 35 | Developer of innovative products which deliver productivity benefits across a range of life science settings | -6.2% | -23.8% | \$0.122 |
| Acrux | ACR | 35 | Developer of topical generic drugs | -10.8% | -13.2% | \$0.165 |
| Invitrocue | IVQ | 35 | Singapore-based analytical services company (life sciences) | 0.0% | 0.0% | \$0.060 |
| PharmAust | PAA | 33 | Developing a veterinary anti-parasitic compound (PPL-1) as a human and animal cancer therapy | -19.2% | -1.9% | \$0.105 |
| Adalta | 1AD | 31 | Developing AD-214 for the treatment of idiopathic pulmonary fibrosis (IPF) and other human fibrotic diseases | 0.0% | 8.7% | \$0.125 |
| Total Brain | ттв | 31 | Development and commercialisation of functional brain analysis techniques. | -22.9% | -61.9% | \$0.320 |
| Actinogen Medical | ACW | 30 | Developing Xanamem for the treatment of dementia in Alzheimer's disease patients | -22.2% | -41.7% | \$0.021 |
| Alterity Therapeutics | ATH | 27 | Developing PBT434 for synucleinopathies | -38.0% | 55.0% | \$0.031 |
| Nyrada | NYR | 26 | Developing drugs to treat cardiovascular, neurological and chronic inflammatory diseases | 23.1% | 0.0% | \$0.240 |
| Bluechiip | вст | 26 | Development, manufacture and commercialisation of a tracking system for biological samples | -31.3% | -71.6% | \$0.044 |
| Neurotech International | NTI | 25 | Has acquired proprietary cannabis strains for treating autism, epilepsy and ADHD | 246.2% | 181.3% | \$0.045 |
| Visioneering Technologies | VTI | 25 | Markets a next-generation contact lens | -21.9% | -51.9% | \$0.025 |
| Nutritional Growth Solutions | NGS | 25 | Development and sale of nutritional supplements for children | 30.0% | | \$0.260 |
| USCOM | UCM | 25 | Markets Uscom, a non-invasive heart output function monitor, BP+ non-invasive central blood pressure product and digital ultrasonic spirometry products | -11.1% | 33.3% | \$0.160 |
| Hexima | HXL | 24 | Developing HXP124 to treat fungal infection of toenails | -7.5% | | \$0.185 |
| Anteris Technologies | AVR | 24 | Application of proprietary ADAPT technology to treate tissue used in the manufacture of cardiovascular prostheses | -5.1% | -62.5% | \$3.750 |
| Neuroscientific Biopharm. | NSB | 22 | Developing EmtinB, an LRP-1 receptor agonist for the treatment of Alzheimer's disease | -5.7% | 31.6% | \$0.250 |
| Asian American Medical Group | AJJ | 22 | Manages liver treatment centres in Asia; expanding into radiation oncology | 116.7% | -18.8% | \$0.065 |
| Bio-Gene Technology | BGT | 21 | Commercialisation of the insecticides Flavocide (synthetic) and Qcide (plant-derived), in the fields of human health and crop protection. | -22.2% | -30.0% | \$0.140 |

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 31/12/20 |
|--------------------------|------|-------------|--|---------------------|------------------|-------------------|
| Adherium | ADR | 19 | Commercialising personal digital medication monitoring systems to improve patient compliance and medication efficacy | -6.7% | 0.0% | \$0.028 |
| Cryosite | CTE | 19 | Provides specialised storage services, especially for umbilical cord blood | 75.6% | 645.3% | \$0.395 |
| Holista Colltech | нст | 17 | Markets dietary supplements and disinfectant products | 24.1% | -8.9% | \$0.072 |
| Heramed | HMD | 17 | Commercialising a home pregnancy monitoring technology | -21.4% | -31.3% | \$0.110 |
| Suda Pharmaceuticals | SUD | 15 | Developing drugs for oro-mucosal administration. Recently acquired IP for anagrelide, with intent to develop it as an anti- cancer therapy | -7.0% | -97.2% | \$0.040 |
| StemCell United | SCU | 15 | Applies a proprietary stem cell technology to culture and grow plant extracts for use in Traditional Chinese Medicine. | 72.7% | 35.7% | \$0.019 |
| Cellmid | CDY | 13 | Develops and markets therapies and diagnostic tests for fibrotic diseases, cancer, ischemic diseases of the heart and hair loss. | -4.3% | -50.0% | \$0.110 |
| Amplia Therapeutics | ATX | 13 | Developing drug candidates to treat fibrotic cancers and fibrosis. Formerly Innate Immunotherapeutics. | 33.3% | 258.2% | \$0.240 |
| Dorsavi | DVL | 12 | Commercialising a wireless sensor movement monitoring system and products for use in the Elite Sports, OH&S and medical/physiotherapy markets | 20.6% | 57.7% | \$0.041 |
| Lifespot Health | LSH | 12 | Commercialising the Bodytel diagnostic software, which is deployed with its Medihale medical cannabis vaporiser system, as well as with patients with metabolic syndrome | 57.1% | 126.5% | \$0.077 |
| Anatara Life Sciences | ANR | 12 | Developing a gastrointestinal dietary supplement | -19.0% | -29.2% | \$0.170 |
| Medibio | MEB | 11 | Commercialising a test for depression and anxiety | -33.3% | -20.0% | \$0.008 |
| Analytica | ALT | 11 | Markets the Pericoach product to aid in the management of female urinary incontinence. | 0.0% | 0.0% | \$0.003 |
| Simavita | SVA | 9 | Commercialising an incontinence assessment technology. | -15.8% | -36.0% | \$0.016 |
| Living Cell Technologies | LCT | 8 | Development of NTCELL for the treatment of Parkinson's Disease, and potentially for eye and ear diseases | -6.7% | -12.5% | \$0.014 |
| Jayex Healthcare | JHL | 8 | Commercialisation of the Enlighten patient workflow platform | -7.1% | 30.0% | \$0.039 |
| Bioxyne | BXN | 8 | Sale and distribution of probiotics | 9.1% | -14.3% | \$0.012 |
| Factor Therapeutics | FTT | 5 | Looking to acquire veterinary medical technology pipeline. Suspended from trading. | 0.0% | 66.7% | \$0.005 |
| Medigard | MGZ | 3 | Suspended from trading. Under administration. | 0.0% | 0.0% | \$0.020 |
| Capitalisation Total | | 20,619 | | | | |

Listed Biotech Investment Funds or Companies

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 31/12/20 |
|------------|------|-------------|--|---------------------|------------------|-------------------|
| BTC Health | BTC | | Provides capital and management expertise to high-growth Australian biotech, medtech and pharmaceutical companies | -4% | -30% | \$0.087 |

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| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 30/09/20 |
|------------------------|------|-------------|--|---------------------|------------------|-------------------|
| Creso Pharma | СРН | 162 | Development of cannabis and hemp derived therapeutic, nutraceutical, and life style products with wide patient and consumer reach for human and animal health. | 373.7% | 44.0% | \$0.180 |
| Incannex | IHL | 161 | Developing medical cannabis products to treat OSA, TBI and ARDS and TMD | 106.7% | 150.0% | \$0.155 |
| Cann Group | CAN | 159 | Medicinal cannabis company focused on the breeding, cultivation and production stages. Holds Australian ODC cultivation (MC) and research license (CR). | 40.5% | -6.3% | \$0.590 |
| Elixinol Global | EXL | 111 | A supplier of hemp and medicinal cannabis products | 7.6% | -54.2% | \$0.355 |
| Althea Group | AGH | 110 | Supply of branded medicinal cannabis products in Australia. To cultivate, extract and manufacture medicinal cannabis. Holds ODC manufacturing license. | -12.1% | 16.0% | \$0.435 |
| Zelira Therapeutics | ZLD | 108 | Developer of medicinal cannabis therapeutic products | 37.3% | 67.3% | \$0.092 |
| Palla Pharma | PAL | 102 | Vertically integrated opiate manufacturer | 8.0% | -23.2% | \$0.810 |
| Little Green Pharna | LGP | 77 | Sale and distribution of medicinal cannabis products | 105.5% | | \$0.565 |
| Medlab Clinical | MDC | 65 | Development, production and marketing of nutraceuticals cannabis product to treat cancer patients with intractable pain | 33.3% | -21.3% | \$0.240 |
| Auscann Group Holdings | AC8 | 62 | Developing medical cannabis products for the Australian market. Merging with CP1. | 30.0% | -27.8% | \$0.195 |
| Bod Australia | BDA | 52 | Developer and distributor of natural, evidence-based cosmetics and natural medicines. Holds medicinal cannabis import license. Overseas partner is Linnea SA. | 28.9% | 63.3% | \$0.490 |
| MGC Pharmaceuticals | MXC | 45 | A medical and cosmetic cannabis company with growing operations in Slovenia. Acquired Czech company Panax Pharma. | 8.7% | -21.9% | \$0.025 |
| THC Global Group | тнс | 45 | A diversified global cannabis company with operations in Australia and Canada | 0.0% | -38.2% | \$0.235 |
| Cann Global | CGB | 36 | Operates a hemp seeds business and conducts medical cannabis research | 75.0% | -50.0% | \$0.007 |
| Cronos | CAU | 17 | Medicinal cannabis health and wellness business | 52.9% | | \$0.130 |
| CannPal Animal Therap. | CP1 | 16 | Research and development of cannabis-based therapeutics for companion animals. Merging with AC8. | 70.0% | 41.7% | \$0.170 |
| Fiji Kava | FIJ | 15 | Cultivation and development of kava (piper methysticum) as an alternative treatment for anxiety, pain and insomnia. | -36.8% | 60.0% | \$0.120 |
| eSense Health | ESE | 9 | Specialises in phytochemical profiling of plants to develop and reverse engineer terpenes for medical and other applications. Suspended from trading. | 0.0% | 38.5% | \$0.018 |

Botanical Product Companies (Cultivated Production)

Capitalisation Total

1,353

Capitalisation Total - All Indices

207,701

| Bioshares Num | ber 875 – 6 January 2021 | Page 13 |
|--|--|---|
| How Bioshares Rates Stock For the purpose of valuation, Biost two categories. The first group are | (S hares divides biotech stocks into stocks with existing positive cash e cash flows. The second group are cash flows, history of losses, or at in this second group, which are s, Bioshares grades them according b better reflect the very large For both groups, the rating "Take a may re-weight their holding by k. ws or close to producing positive cash r Value | Group B Stocks without near term positive cash flows, history of losses, or at early stages of commercialisation. Speculative Buy – Class A These stocks will have more than one technology, product or investment in development, with perhaps those same technologies offering multiple opportunities. These features, coupled to the presence of alliances, partnerships and scientific advisory boards, indicate the stock is relative less risky than other biotech stocks. Speculative Buy – Class B These stocks may have more than one product or opportunity, and may even be close to market. However, they are likely to be lacking in several key areas. For example, their cash position is weak, or management or board may need strengthening. Speculative Buy – Class C These stocks generally have one product in development and lack many external validation features. |
| Sell CMP is 20% > Fair | | Speculative Hold – Class A or B or C Sell |
| (CMP-Current Market Price) | | 500 |
| | ntisense Therapeutics, Imugene, E | ea, ResApp Health, Pharmaxis, Dimerix, Adalta, Actinogen xopharm, Immutep, Neuroscientific Biopharmaceuticals, Invex |
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| | Subscription R | ates (inc. GST) |
| | | ronic distribution): \$550 |
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