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Companies covered: Quarterly Review, BNO

| | 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) | -36% |
| 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 - Current) | 0.8% |
| Cumulative Gain | 687% |
| Av. Annual gain (18 yrs) | 16.0% |

Bioshares is published by Blake Industry & Market Analysis Pty Ltd.

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Individual Subscriptions (48 issues/year) \$500 (Inc.GST)

Edition Number 798 (1 July 2019)

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Bioshares

1 July 2019 Edition 798

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

Quarterly Review

Bioshares Index up 21% in June Quarter

The **Bioshares Index** posted a strong gain in the June quarter, rising by 20.9% from the previous quarter.

Gains by Nanosonics (+28.9%), Clinuvel Pharmaceuticals (+37.5%), Polynovo (+105.3%), Avita Medical (+47.4%) and new listing Next Science (+311% from its \$1 offer price), accounted for 18 percentage points of the 20.9% gain in the quarter.

The Bioshares Index, which comprises 120 life science stocks, outperformed the **Bioshares** Large Cap Index, which increased 12% for the quarter.

The Bioshares Index also outperformed the ASX 300 Index, which rose by 7.2% for the quarter.

CSL shares rose 10%, with the company finishing the quarter with a capitalisation of \$97 billion. Both Resmed's and Cochlear's shares increased by 19% for the quarter, Blackmores backtracked by 3% and Mayne Pharma stock slumped by 27%.

Investment sentiment towards botanical and medicinal stocks softened in the June quarter, with the **Bioshares Botanical Index** (18 stocks) registering a 2.6% gain.

The **Nasdaq Biotech Index** slipped, somewhat uncharacteristically, by 2.4% in the March quarter. This decrease followed a robust 15.4% gain in the March quarter. An estimated 22 life science companies IPO'd on the Nasdaq in the June quarter (raising US\$2 billion), compared to an estimated 11 companies pricing IPOs in the previous quarter (raising US\$700 million). Some of the weakness in biotech investment sentiment in the June quarter in the USA could be attributed to investors facing an excess of supply of new opportunities.

Capital Raisings

The funding tap for ASX biotechs was opened wide in the June quarter, with some impressive capital raisings completed. Paradigm Biopharmaceuticals' \$77.8 million capital raise accounted for 25% of the \$308.5 million raised during the quarter. Elixinol Global raised \$50 million (after raising \$40 million in September 2018 and completing a \$20 million IPO in January 2018.) Volpara Health Technologies raised \$45 million through a placement, with a further \$10 million from a rights issue flowing through in this quarter. A single IPO was completed, with Next Science raising \$35 million.

Index Performance by Quarter (Change from previous Qtr)

| index reflormance by quarter (change from previous qu') | | | | | | | | | | |
|---|---------|---------|---------|---------|---------|--|--|--|--|--|
| | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | | | | | |
| Bioshares Index | 0.4% | 8.3% | -19.5% | 16.2% | 20.9% | | | | | |
| Bioshares Large Cap Index | 20.5% | 5.6% | -7.5% | 1.4% | 12.0% | | | | | |
| Bioshares Botanicals Index | -1.9% | -5.2% | -20.3% | 17.3% | 2.6% | | | | | |
| Nasdaq Biotech Index | 2.8% | 11.2% | -20.6% | 15.4% | -2.4% | | | | | |
| ASX 300 Index | 7.5% | -0.2% | -8.8% | 9.5% | 7.2% | | | | | |

Bioshares Index - Top 10 Outperformers - June Quarter

| Company | Code | Cap. \$m | Change - Quarter | Change - Year | Price 28/6/19 |
|-------------------------|------|-------------|---------------------|------------------|------------------|
| Next Science | NXS | 738 | 311.0% | | \$4.110 |
| Orthocell | occ | 56 | 264.3% | 59.4% | \$0.510 |
| Mach 7 Technologies | M7T | 71 | 156.8% | 126.2% | \$0.475 |
| ResApp Health | RAP | 135 | 126.7% | 44.4% | \$0.195 |
| Polynovo | PNV | 1,018 | 105.3% | 187.9% | \$1.540 |
| Alcidion | ALC | 76 | 92.3% | 140.4% | \$0.125 |
| BARD1 Life Sciences | BD1 | 40 | 81.3% | 107.1% | \$0.029 |
| Botanix Pharmaceuticals | вот | 139 | 56.5% | 63.6% | \$0.180 |
| LBT Innovations | LBT | 23 | 51.3% | 0.0% | \$0.115 |
| Lifespot Health | LSH | 6 | 48.1% | -30.4% | \$0.080 |

Outperformers

The best performing stock in the **Bioshares Index** in the March quarter was newcomer **Next Science**, which recorded a 311% gain from its IPO price of \$1.00. Next Science has developed an ant-bacterial product that combines benzelkonium chloride with other agents. The company has several agreements in place for the selling of two products, Bactisure and BlastX. (See *Bioshares* 785 for our IPO Profile of Next Science.) The company's capitalisation of \$738 million is now embedded with very high expectations for sales growth and market development.

Regenerative technologies company **Orthocell** saw its shares appreciate 264% for the quarter. The company's release of positive news for four patients from a long running clinical trial of its collagen medical device, CelGro, for use in nerve regeneration, was followed by a \$10 million capital raising. Fifteen patients have now been treated from a total of 20 planned. The company said that the patients "regained muscle function and/or sensation of affected limbs and have commenced return to work, sport and activities of daily living following CelGro nerve regeneration treatment."

Mach7 Technologies reported a 19% growth in sales orders in the March quarter, along with recording its highest ever quarter for cash receipts. These positive financial trends, coupled to board and management changes over H1 2019, contributed to a 157% increase in shares of M7T over the quarter.

ResApp Health shares staged a comeback in the June quarter, increasing by 127% from the previous quarter. Key share price drivers in the quarter were the company's submission of a de novo 510(k) submission for its Smartcough smart phone diagnostic aid for paediatric respiratory conditions, journal publications, initiation of a wearable devices development program and the release of further data from clinical trials.

Polynovo shares increased by 105% during the quarter. The company manufactures bio-resorbable polymers which can be applied to burn treatment. The company's reporting of strong monthly sales figures helped drive the share price. The company also conducted a roadshow in New York, had seven papers and posters presented at the American Burn Association meeting and participated in the Macquarie Emerging Leaders Forum in Melbourne.

Bioshares Index - Bottom 10 Underperformers - June Quarter

| Company | Code | Cap. \$m | Change - Quarter | Change - Year | Price 28/6/19 |
|-----------------------|------|-------------|---------------------|------------------|------------------|
| Actinogen Medical | ACW | 11 | -81.5% | -79.2% | \$0.010 |
| Bionomics | BNO | 17 | -74.4% | -94.0% | \$0.032 |
| Benitec Biopharma | BLT | 15 | -54.4% | -57.8% | \$0.057 |
| Anatara Life Sciences | ANR | 13 | -48.0% | -59.8% | \$0.255 |
| Medibio | MEB | 2 | -47.1% | -93.3% | \$0.009 |
| Impedimed | IPD | 44 | -46.5% | -70.9% | \$0.115 |
| Immuron | IMC | 17 | -44.2% | -64.7% | \$0.120 |
| Osprey Medical | OSP | 33 | -43.0% | -48.7% | \$0.077 |
| Novita Healthcare | NHL | 4 | -40.0% | -65.7% | \$0.012 |
| Race Oncology | RAC | 4 | -39.1% | -74.8% | \$0.053 |

Underperformers

Actinogen Medical's shares were sold off (an -81.5% quarterly decline) following the release of negative results of its Phase II trial of Xanamem in Alzheimer's disease patients. The company is continuing its exploration of higher doses of Xanamem in addition to conducting a target occupancy study of the drug candidate.

Bionomics suffered a further setback with its BNC210 program, resulting in a 74.4% share price decline. Late in the quarter, the company said that its trial of BNC210 in elderly patients with agitation showed BNC210 did not differentiate from placebo on both primary and secondary endpoints. The company is continuing with the development of a solid dose formulation of BNC210 which it believes will overcome the drug's problem of inadequate exposure in circulation. The company is also maintaining a focus on evaluating the reformulated drug in PTSD. In our view the company would be better placed to evaluate a reformulated BNC210 in patients with far more homogeneity and in areas where BNC210 has already been shown to have some effect, such as anxiety or depression. (*Bioshares* recommendation: Sell)

Benitec Biopharma's shares lost 54.5% over the quarter, with the termination of the company's agreement with Axovant Sciences for the development of AXO-AAV-OPMD (Oculopharyngeal Muscular Dystrophy). Reasons for the handback were not provided, but a possible reason is that the adeno-associated virus (AAV) vector lacked the capability to insinuate the gene therapy (construct) in the target tissue. The company said that it is conducting analysis to "potentially improve the biological efficacy of the compound via further optimisation of the proprietary delivery method employed to dose the target tissue."

Anatara Life Sciences was another company whose share price suffered from licensing termination during the quarter. Anatara's shares fell by 48%, which was precipitated by global animal health products company Zoetis' decision to hand back Detach. Zoetis held a worldwide exclusive license for Detach for use in horses and livestock. Detach was approved by the Australian Pesticides and Veterinary Medicines Authority as an aid in managing diarrhoea in piglets. Anatara's main focus now is the development of a dietary supplement for gastro-intestinal conditions.

Bioshares

Capital Raisings by Australian-listed Biotech Companies Q2 2019

| Company | Code | Investment Manager or Investor | Type of Raising | Funds Raised (\$M) |
|---------------------------------|------|----------------------------------|------------------------|--------------------|
| Paradigm Biopharmaceuticals | PAR | Bell Potter | Placement | \$51.5 |
| Paradigm Biopharmaceuticals | PAR | Bell Potter | Rights Issue | \$26.3 |
| Elixinol Global | EXL | Bell Potter | Placement | \$50.0 |
| Volpara Health Technologies | VHT | Bell Potter / Morgans Corporate | Placement | \$45.0 |
| Orthocell | OCC | Bell Potter | Placement | \$10.6 |
| BTC Health | BTC | Sigma Healthcare | Placement | \$8.0 |
| Adalta | 1AD | Aurenda Partners / Bell Potter | Rights Issue | \$2.0 |
| Adalta | 1AD | Aurenda Partners / Bell Potter | Placement | \$5.0 |
| BARD1 Life Sciences | BD1 | Merchant Opportunities Fund | Placement | \$5.0 |
| LBT Innovations | LBT | Haw kesbury Partners | Placement | \$5.0 |
| Total Brain | TTB | Blue Ocean Equities | Placement (T2) | \$1.0 |
| Total Brain | ТТВ | Blue Ocean Equities | Rights Issue | \$1.9 |
| Total Brain | TTB | Blue Ocean Equities | Conditional Placement | \$1.3 |
| Memphasys | MEM | Patersons Securities | Rights Issue | \$3.6 |
| SUDA Pharnaceuticals | SUD | | Rights Issue | \$3.4 |
| THC Global | THC | | SPP | \$3.0 |
| Anteo Diagnostics | ADO | | Rights Issue | \$2.6 |
| Prescient Therapeutics | PTX | Bell Potter / Aurenda Securities | Rights Issue | \$2.1 |
| Pharmaust | PAA | Alto Capital | Rights Issue | \$2.0 |
| Optiscan Imaging | OIL | Paterson Securities | Placement | \$1.7 |
| BTC Health | BTC | | SPP | \$1.2 |
| Asian American Medical Group | AJJ | | Placement | \$1.1 |
| Visioneering | VTI | Thorney Investment Group | Placement | \$1.0 |
| Anteo Diagnostics | ADO | | Placement | \$1.0 |
| Analytica | ALT | | Rights Issue | \$0.9 |
| Pharmaust | PAA | Alto Capital | Rights Issue Shortfall | \$0.7 |
| Amplia Therapeutics | ATX | | Placement | \$0.4 |
| Next Science | NXS | Paterson Securities | IPO (100 cps) | \$35.0 |
| Total raised in Q2 2019 | • | | | \$272.3 |
| Total raised in Q1 2019 | | | | \$36.2 |
| Total raised YTD 2019 | | | | \$308.5 |

Bioshares Model Portfolio (1 July 2019)

| Company | Code | Price (current) | Price added to portfolio | Recommend- ation | Cap'n (\$M) | Date added |
|-----------------------------|------|--------------------|--------------------------|---------------------|----------------|---------------|
| Volpara Health Technologies | VHT | \$1.695 | \$0.375 | Spec Hold A | \$367 | June 2017 |
| Telix Pharmaceuticals | TLX | \$1.280 | \$0.910 | Spec Buy A | \$279 | May 2019 |
| Opthea | OPT | \$0.670 | \$0.160 | Spec Buy A | \$167 | November 2014 |
| Alcidion | ALC | \$0.130 | \$0.053 | Hold | \$105 | April 2019 |
| Pharmaxis | PXS | \$0.255 | \$0.260 | Spec Buy A | \$101 | December 2016 |
| Immutep | IMM | \$0.025 | \$0.032 | Spec Buy A | \$96 | March 2019 |
| Somnomed | SOM | \$1.520 | \$0.94 | Spec Buy A | \$95 | January 2011 |
| Bluechiip | BCT | \$0.082 | \$0.053 | Spec Hold B | \$43 | December 2018 |
| Micro-X | MX1 | \$0.215 | \$0.38 | Spec Buy A | \$33 | May 2017 |
| Rhinomed | RNO | \$0.220 | \$0.24 | Spec Buy B | \$31 | Jun-19 |
| Acrux | ACR | \$0.185 | \$0.31 | Spec Buy A | \$31 | July 2017 |
| Adalta | 1AD | \$0.150 | \$0.23 | Spec Buy A | \$25 | July 2017 |
| Cogstate | CGS | \$0.190 | \$0.24 | Accumulate | \$23 | April 2019 |
| Dimerix | DXB | \$0.090 | \$0.09 | Spec Buy B | \$14 | December 2018 |

Portfolio Changes – 1 July 2019

IN:

No changes

OUT:

No changes

Stocks Removed from Bioshares Portfolio in TTM

| Date removed | Stock |
|----------------|---------------|
| June 2019 | CUV |
| March 2019 | CYP |
| March 2019 | CGS, MGZ |
| February 2019 | RNO |
| November 2018 | FTT |
| October 2018 | BNO |
| September 2018 | DVL, MEB, OSP |

Selected Clinical Trial Developments - Q2 2019

| Company | Code | Product/Therapeutic | Event |
|--------------------------------|------|---|--|
| Actinogen Medical | ACW | Xanamem (Alzheimer's disease) | Phase II trial failed to meet efficacy endpoint (at 10mg dose). |
| Antisense Therapeutics | ANP | ATL1102 (Duchenne Muscular Dystrophy) | Reported full enrollment in 9 pt trial. (Pts are non-ambulant) |
| Bionomics | BNO | BNC210 (Agitation in the elderly) | Phase II trial failed to meet efficacy endpoint. 38 pts. Twice daily administration of 300mg as a suspension solution, for 5 days. |
| Dimerix | DXB | DMX200 (focal segmental glomerulosclerosis) | Reported that recruitment for 10 pt, crossover Phase II study is expected to be completed in July. Results now expected in Q2 2020. |
| Dimerix | DXB | DMX200 (diabetic kidney disease) | Reported that recruitment for 40 pt, crossover Phase II study is expected to be completed in Q3. Results now expected in Q2 2020. |
| Immutep | IMM | eftilagimod alpha (IMP321) (in combination with paclitaxel) (metastatic breast cancer) | Completed enrolment in 226 Phase II study. |
| Kazia Therepeutics | KZA | GDC-0084 (gliolastoma) | Completed maximum tolerated dosing (MTD) component of Phase II study. 8 pts. Determined an MTD of 60mg. DLT's included oral mucositis and hyperglycemia. |
| Medlab Clinical | MDC | NRGBiotic (probiotic) (Bifidobacterium bifidum, Lactobacillus acidophilus, magnesium orotate, Streptococcus thermophilus, ubidecarenone) | Commenced second round of recruitment for randomised, placebo controlled, 130 pt Phase lla trial. 32 pts have completed first round. Trial commenced in June 2018. Date of last data collection anticipated for Sept 2019 |
| NoxoPharm | NOX | Veyonda (idronoxil) (in combination with low dose radiation)l) (metastatic, castration-resistant prostate cancer) | Completed patient enrollment for dose exansion phase (1200mg). 12 pts. Topline 6mth data expected in November. |
| Opthea | OPT | OPT-302 (VEGFC,D inhibitor) (soluble receptor 'trap; molecule) Wet AMD | Completedfinal pt visit in Phase II b trial, of 366 treatment naïve pts. Treatment arms: OPT-302 administered at 0.5mg or 2.0mg in combination w ith VEGF-A inhibitor Lucentis, or Lucentis alone. 348 pts completed w eek 24 visit. |
| Orthocell | occ | CelGro (collagen device) (nerve regeneration) (soft tissue reconstruction) | Reported results for 4 pts (8 peripheral nerves), 15 of 20 treated. Muscle function and/or sensation in affected limbs was regained after 24 months. |
| Paradigm Biopharmaceuticals | PAR | Pentosan polysulphate sodium, injected (PPS) (Ross Fiver virus) (debilitating musculosketal pain) | Met primary safety endpoint in Phase lla randomised trial. Met secondary efficacy endpoint: at 3mths, 72.7% (8/11) subjects in treatment group show ed new remission of symptoms, compared to 14.3% (1/7) in placebo arm (p<0.05) |
| Rhythm Biosciences | RHY | ColoSTAT (early detection of colorectal cancer) (blood test) | Initiated Monash Health as second clinical trial site. 1,000 pt trial. Signed on the Alfred Hospital as a third site. |

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The ASX-Listed Life Sciences Sector

June 28, 2019: Capitalisation \$152 billion, 144 companies

Bioshares Large Cap. Index

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 28/6/19 |
|--------------------|------|-------------|---|---------------------|------------------|------------------|
| CSL | CSL | 97,425 | Manufactures pharmaceutical products including vaccines and human plasma fractions | 10% | 12% | \$215.00 |
| Resmed Inc. | RMD | 24,613 | Manufactures diagnostic and treatment equipment for sleeping disordered breathing | 19% | 22% | \$17.17 |
| Cochlear | СОН | 11,938 | Manufactures cochlear hearing implants | 19% | 3% | \$206.84 |
| Blackmores | BKL | 1 561 | Manufactures vitamin, mineral and herbal supplements and skin & hair products in Australia and N.Z. | -3% | -37% | \$89.91 |
| Mayne Pharma Group | MYX | 807 | Manufactures, develops and markets generic drugs, with operations in Australia and the USA | -27% | -41% | \$0.510 |

Capitalisation Total

136,344

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 28/6/19 |
|--------------------------------|------|-------------|--|---------------------|------------------|------------------|
| Nanosonics | NAN | 1,686 | Developing a novel disinfection technology, the first product is a point of care ultrasound probe disinfection unit, branded Trophon EPR | 28.9% | 77.8% | \$5.620 |
| Clinuvel Pharmaceuticals | CUV | 1,615 | Markets an analogue of the alpha-MSH protein, named Scenesse, as a photo-protective agent. Approved in Europe. | 37.5% | 205.9% | \$33.680 |
| Polynovo | PNV | 1,018 | Developing novel polymer-based products for treating wounds and burns | 105.3% | 187.9% | \$1.540 |
| Avita Medical | AVH | 786 | Markets ReCell, a skin repair product | 47.4% | 508.7% | \$0.420 |
| Next Science | NXS | 738 | Commercialisation of anti-biofilm products | 311.0% | | \$4.110 |
| Mesoblast | MSB | 735 | Developing cellular medicines based on its proprietary mesenchymal lineage adult stem cells for high, unmet medical needs including advanced heart failure, chronic low back pain, acute graft versus host disease and inflammatory conditions such as biologic refractory rheumatoid arthritis. | 2.8% | -0.3% | \$1.475 |
| API | API | 650 | Pharmaceutical wholesaler. Merging with Sigma Pharmaceuticals. | -12.9% | -22.4% | \$1.320 |
| Sigma Pharmaceuticals | SIG | 588 | Pharmaceutical manufacturing and wholesaling. Merging with API. | 5.7% | -31.5% | \$0.555 |
| Starpharma Holdings | SPL | 506 | Developer of pharmaceutical chemical scaffolds known has 'dendrimers' | 42.4% | 16.7% | \$1.360 |
| Volpara Health Technologies | VHT | 360 | Markets breast density assessment tools and analytics, for use with breast X-ray screening programs | 20.4% | 113.3% | \$1.685 |
| Medical Developments | MVP | 347 | Commercialising the Penthrox inhaler for temporary pain relief. Used widely in ambulances across Australia. | 6.4% | -8.6% | \$5.300 |
| Clovercorp | CLV | 319 | Development and production of omega-3 food additives from tuna oil | -6.8% | 18.8% | \$1.930 |
| AFT Pharmaceuticals | AFP | 283 | Development and sale of pharmaceuticals in Australasia and Rest-of-World | 47.3% | 45.5% | \$2.910 |
| Telix Pharmaceuticals | TLX | 271 | Development of molecularly-targeted radiation (MTR) therapies and diagnostics | 47.6% | 85.1% | \$1.240 |
| Paradigm Biopharm. | PAR | 269 | Development of pentosan polysulphate sodium to treat bone marrow oedema and joint pain | -25.7% | 115.4% | \$1.400 |

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 28/6/19 |
|-------------------------|------|-------------|---|---------------------|------------------|------------------|
| Opthea | OPT | 167 | Developing OPT-302 to treat wet AMD (an eye disease) | -2.2% | 27.6% | \$0.670 |
| Genetic Signatures | GSS | 140 | Development and sale of molecular diagnostics (MDx) kits and products. | 22.7% | 264.9% | \$1.350 |
| Botanix Pharmaceuticals | вот | 139 | Developing BTX1503 for the treatment of acne. BTX1503 combines synthetic cannabidiol with a transdermal drug delivery system, Permetrex. | 56.5% | 63.6% | \$0.180 |
| ResApp Health | RAP | 135 | Developing digital healthcare solutions to diagnose and manage respiratory conditions | 126.7% | 44.4% | \$0.195 |
| Cynata Therapeutics | CYP | 127 | Stell cell technology company aiming to produce unlimited uniform, pharmaceutical grade MSCs from a single donor. | 0.4% | -8.8% | \$1.245 |
| Neuren Pharmaceuticals | NEU | 115 | Developing neuroprotective therapeutics. | -1.3% | -61.4% | \$1.145 |
| Compumedics | CMP | 108 | Develops, manufactures and markets sleep diagnostic and monitoring equipment. | 31.2% | 10.9% | \$0.610 |
| SDI | SDI | 105 | Manufacture & distribution of amalgam (fillings) & other dental materials and product R&D | 16.4% | 77.0% | \$0.885 |
| Cyclopharm | CYC | 101 | A nuclear medicine company that markets the Technegas lung imaging system | 34.2% | 47.0% | \$1.470 |
| Pharmaxis | PXS | 101 | Markets the lung function test, Aridol. Bronchitol is approved in Europe for the management of cystic fibrosis. Developing a suite of compounds from amine oxidase platform. | -3.8% | -17.7% | \$0.255 |
| Probiotec | PBP | 94 | Manufacturer, marketer and distributor of a range of over the counter (OTC) pharmaceuticals, complementary medicines and speciality ingredients | 0.0% | 36.5% | \$1.570 |
| Somnomed | SOM | 91 | Markets oral devices for the treatment of sleep apnea and snoring. | -16.2% | -34.1% | \$1.450 |
| Immutep | IMM | 85 | Developing immuno-oncology drug candidates IMP761 and IMP321 (eftilagimod alpha) | -24.2% | -19.4% | \$0.025 |
| Invion | IVX | 82 | Development of Photosoft, a photosensitiser derived from chlorophyll, which it is believed can accumulate selectively in tumours and be manipulated for therapeutic purposes. | 25.0% | -55.9% | \$0.015 |
| G Medical | GMV | 80 | Developing next generation mobile health and e-health devices, and cloud and medical call centres | -23.6% | -10.6% | \$0.210 |
| Ellex Medical Lasers | ELX | 76 | Develops, manufactures and markets solid state ophthalmic lasers used to treat secondary cataracts and retinal disorders. | -13.1% | -13.1% | \$0.530 |
| Alcidion | ALC | 76 | Specialist health IT solution provide. Recently acquired MKM Health and Patient Track Holdings. | 92.3% | 140.4% | \$0.125 |
| Phylogica | PYC | 71 | Developing peptide compound libraries for use in human therapeutics | 16.0% | 11.5% | \$0.029 |
| Mach 7 Technologies | М7Т | 71 | Development and sales enterprise imaging management platform | 156.8% | 126.2% | \$0.475 |
| Reva Medical | RVA | 70 | Developing the Fantom scaffold, its third version of a bioresorbable coronary stent. SUSPENDED FROM TRADING | 0.0% | -24.4% | \$0.170 |
| Medadvisor | MDR | 70 | Medication adherence software platform company | 10.9% | 4.1% | \$0.051 |
| Star Combo Pharma | S66 | 60 | Develops, manufactures and markets nutritional and OTC products | 19.8% | | \$0.695 |
| Noxopharm | NOX | 58 | Developing a cancer treatment, NOX66, a formulation of idronoxil, which targets NADH oxidase 2. | 18.8% | -22.1% | \$0.475 |
| Imugene | IMU | 58 | Developing a Her2 positive cancer vaccine technology | -15.8% | -44.8% | \$0.016 |
| Orthocell | occ | 56 | Developing and marketing regenerative medicine products | 264.3% | 59.4% | \$0.510 |

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 28/6/19 |
|---------------------------------|------|-------------|--|---------------------|------------------|------------------|
| Respiri | RSH | 46 | Respiratory and pulmonary devices company. Markets Airsonea, an ehealth product. | 10.0% | -9.3% | \$0.088 |
| Impedimed | IPD | 44 | Markets products that aid the diagnosis of secondary lymphoedema, muscle wasting and other disorders | -46.5% | -70.9% | \$0.115 |
| Resonance Health | RHT | 42 | Markets FerriScan, a non-invasive tool for measuring liver iron levels | 14.1% | 337.5% | \$0.105 |
| Bluechiip | вст | 41 | Development, manufacture and commercialisation of a tracking system for biological samples | -11.4% | 44.4% | \$0.078 |
| Asian American Medical Group | AJJ | 41 | Manages liver treatment centres in Asia; expanding into radiation oncology | 33.3% | 14.3% | \$0.120 |
| Vita Life Sciences | VLS | 40 | Development, manufacture and distribution of prescription and OTC medicines as well as complementary and alternative medicines, dietary supplements and health foods | -12.1% | -8.8% | \$0.725 |
| BARD1 Life Sciences | BD1 | 40 | Developing cancer diagnostics and therapies. Lead program is the BARD1 lung cancer test. | 81.3% | 107.1% | \$0.029 |
| Biotron | BIT | 39 | Developing a drug to treat HIV | -12.0% | 247.4% | \$0.066 |
| IDT Australia | IDT | 39 | Manufacturer of pharmaceutical ingredients to international standards for major pharmaceutical groups. | 10.0% | 71.9% | \$0.165 |
| Universal Biosensors | UBI | 39 | Development, manufacture and commercialisation of a range of in vitro diagnostic tests for point-of-care use | 8.5% | -7.7% | \$0.217 |
| Admedus | AHZ | 35 | Markets Cardiocel, a bio-scaffold | 42.9% | -73.9% | \$0.060 |
| Invitrocue | IVQ | 35 | Singapore-based analytical services company (life sciences) | -12.0% | -40.0% | \$0.066 |
| Micro-X | MX1 | 34 | Development of a mobile medical x-ray imager for hospitals, a version for deployed military use and a mobile security back -scatter imager | -17.6% | -18.5% | \$0.220 |
| Oncosil Medical | OSL | 33 | Developing Oncosil, a brachytherapy for pancreatic cancer and liver cancer | -1.9% | -77.0% | \$0.053 |
| Osprey Medical | OSP | 33 | Markets DYEVERT, a device which reduces the amount of dye needed in imaging procedures | -43.0% | -48.7% | \$0.077 |
| Exopharm | EX1 | 33 | Development of technology for improving the purification of exosomes, which are extra-cellular vesicles which transport bioactive molecules through out the body. | 2.5% | 0.0% | \$0.410 |
| Rhinomed | RNO | 32 | Developing nasal technologies with applications for sport performance, sleep and drug delivery. | 15.4% | 28.6% | \$0.225 |
| Acrux | ACR | 31 | Developer of topical generic drugs | 0.0% | 27.6% | \$0.185 |
| Proteomics International | PIQ | 28 | Provider of protein chemistry analytical services. Seeking to commercialise a diabetic kidney disease diagnostic. | 16.7% | 75.0% | \$0.350 |
| GI Dynamics | GID | 28 | Commercialising the Endobarrier, an implantable polymer liner for the management of obesity and diabetes | 38.1% | -14.7% | \$0.029 |
| Optiscan Imaging | OIL | 27 | Manufactures confocal microscopes for clinical diagnosis | 38.1% | -10.8% | \$0.058 |
| Patrys | PAB | 27 | indications. Focussed on 3E10, a cell penetrating antibody. | 4.2% | -56.1% | \$0.025 |
| Oventus | OVN | 24 | Developing an oral appliance to treat sleep apnea and snoring | -14.8% | -29.2% | \$0.230 |
| Adalta | 1AD | 24 | Developing AD-114 for the treatment of idiopathic pulmonary fibrosis (IPF) and other human fibrotic diseases | -31.9% | -56.8% | \$0.160 |
| Cogstate | CGS | 23 | Markets cognitive performance diagnostic products | -15.2% | -74.3% | \$0.195 |
| LBT Innovations | LBT | 23 | Developer of innovative products which deliver productivity benefits across a range of life science settings | 51.3% | 0.0% | \$0.115 |

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 28/6/19 |
|------------------------------|------|-------------|---|---------------------|------------------|------------------|
| Recce | RCE | 23 | Development of an antibiotic ("RECCE") as a cancer treatment | 7.5% | 13.2% | \$0.215 |
| Kazia Therapeutics | KZA | 22 | Developing GDC-084 for the treatment of glioblastoma multiform (a brain cancer) | -23.9% | -17.6% | \$0.350 |
| Visioneering Technologies | VTI | 22 | Markets a next-generation contact lens | -21.7% | -85.0% | \$0.054 |
| Emvision | EMV | 21 | 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 | -5.2% | 0.0% | \$0.365 |
| Total Brain | ТТВ | 20 | Development and commercialisation of functional brain analysis techniques. Formerly Brain Resource Corp. | -7.1% | -36.6% | \$0.026 |
| AirXpanders | AXP | 20 | Design, manufacture and distributor of the Aeroform, a patient controlled tissue expander, for use in breast reconstruction after mastectomy. SUSPENDED FROM TRADING | 0.0% | -62.0% | \$0.035 |
| Anteo Diagnostics | ADO | 19 | Developer of a biological coatings technology that can be applied to immunoassays, bio-separations, drug delivery and other medical devices | -23.5% | -13.3% | \$0.013 |
| USCOM | UCM | 19 | Markets Uscom, a non-invasive heart output function monitor, BP+ non-invasive central blood pressure product and digital ultrasonic spirometry products | -17.6% | -15.2% | \$0.140 |
| Antisense Therapeutics | ANP | 19 | Developing antisense compounds to treat multiple sclerosis and Duchenne Muscular Dystrophy | 18.4% | 80.0% | \$0.045 |
| Rhythm Biosciences | RHY | 18 | Developing Colostat, a blood test for the early detection of colorectal cancer | 12.5% | -12.2% | \$0.180 |
| CardieX | CDX | 18 | Development of wearable blood pressure measurement devices | -31.6% | 0.0% | \$0.026 |
| Regeneus | RGS | 18 | Commercialisation of autologous adipose derived stem cells and factors. Markets HiQCell for human use and CryoShot for veterinary use. | -22.7% | -29.2% | \$0.085 |
| Genera Biosystems | GBI | 17 | Develops, manufactures and distributes advanced molecular diagnostic tests, with a particular focus on women's health. SUSPENDED SINCE JULY 2018 | 0.0% | 0.0% | \$0.160 |
| Bionomics | BNO | 17 | Discovery and development of drugs to treat CNS diseases | -74.4% | -94.0% | \$0.032 |
| Immuron | IMC | 17 | Sales and development of hyper-immune bovine colostrum products for therapeutic use | -44.2% | -64.7% | \$0.120 |
| Heramed | HMD | 17 | Commercialising a home pregnancy monitoring technology | -28.3% | | \$0.190 |
| Alterity Therapeutics | ATH | 16 | Developing PBT434 for synucleinopathies. Formerly Prana Biotech | -34.1% | -34.1% | \$0.029 |
| Sienna Cancer Diagnostics | SDX | 16 | Development and sale of an in vitro diagnostic, SCD-A7, as an adjunct to urine cytology, in the field of bladder cancer detection and diagnosis | -7.6% | -7.6% | \$0.061 |
| Genetic Technologies | GTG | 16 | A diversified molecular diagnostics company embracing blockchain technologies across genomic testing platforms. Markets Brevagenplus, a breast cancer risk prediction tool. | -25.0% | -40.0% | \$0.006 |
| Prescient Therapeutics | PTX | 15 | Developing compounds to treat various cancers | -24.0% | -65.5% | \$0.038 |
| Benitec Biopharma | BLT | 15 | Developing innovative therapies based on a combination of gene therapy with ddRNAi gene silencing technology | -54.4% | -57.8% | \$0.057 |
| Cellmid | CDY | 15 | Develops and markets therapies and diagnostic tests for fibrotic diseases, cancer, ischemic diseases of the heart and hair loss. | -20.5% | -62.8% | \$0.175 |
| Analytica | ALT | 14 | Markets the Pericoach product to aid in the management of female urinary incontinence. | 0.0% | -33.3% | \$0.004 |

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 28/6/19 |
|---------------------------|------|-------------|--|---------------------|------------------|------------------|
| Memphasys | MEM | 14 | Developing a sperm separation technology, SpermSep. Completed a 1:15 share consolidation. | 8.7% | 66.7% | \$0.025 |
| Living Cell Technologies | LCT | 14 | Development of NTCELL for the treatment of Parkinson's Disease, and potentially for eye and ear diseases | -35.1% | -4.0% | \$0.024 |
| Dimerix | DXB | 13 | Developing a combination therapy, DMX200, to treat chronic kidney disease. | -1.2% | -10.5% | \$0.085 |
| Anatara Life Sciences | ANR | 13 | Following the licensing of its animal health product to Zoetis, is now developing a gastrointestinal dietary supplement (human health) | -48.0% | -59.8% | \$0.255 |
| Bioxyne | BXN | 12 | Sale and distribution of probiotics | -14.3% | -64.0% | \$0.018 |
| Actinogen Medical | ACW | 11 | Developing Xanamem for the treatment of dementia in Alzheimer's disease patients | -81.5% | -79.2% | \$0.010 |
| Suda Pharmaceuticals | SUD | 11 | Developing drugs for oro-mucosal administration. Recently acquired IP for anagrelide, with intent to develop it as an anticancer therapy | -25.0% | -62.5% | \$0.003 |
| PharmAust | PAA | 11 | Developing a veterinary anti-parasitic compound (PPL-1) as a human and animal cancer therapy. Also operates Epichem, a medicinal chemistry service business. | 0.0% | -7.3% | \$0.038 |
| Bio-Gene Technology | BGT | 10 | Commercialisation of the insecticides Flavocide (synthetic) and Qcide (plant-derived), in the fields of human health and crop protection. | -9.1% | -45.5% | \$0.090 |
| Dorsavi | DVL | 10 | Commercialising a wireless sensor movement monitoring system and products for use in the Elite Sports, OH&S and medical/physiotherapy markets | 22.0% | -58.3% | \$0.050 |
| Holista Colltech | нст | 10 | Extracts collagen from sheepskins and markets natural healthcare products. | -38.2% | -43.2% | \$0.042 |
| Stem Cell United | SCU | 9 | Applies a proprietary stem cell technology to culture and grow plant extracts for use in Traditional Chinese Medicine. | -30.0% | -44.0% | \$0.014 |
| Allegra Orthopeadics | AMT | 9 | A developer and manufacturer of prosthetic implants and medical devices. | -25.0% | -14.3% | \$0.090 |
| Jayex Healthcare | JHL | 8 | Commercialisation of the Enlighten patient workflow platform | 37.1% | 92.0% | \$0.048 |
| Vectus Biosystems | VBS | 8 | Developing an anti-fibrotic compound, VB0004, with applications in heart and kidney disease | -24.4% | -60.0% | \$0.340 |
| Neuroscientific Biopharm. | NSB | 8 | Developing EmtinB, an LRP-1 receptor agonist for the treatment of Alzheimer's disease | -19.4% | | \$0.145 |
| TBG Diagnostics | TDL | 8 | Development of HLA SSA and SBT diagnostic kits and related services | -12.5% | -44.4% | \$0.035 |
| Simavita | SVA | 7 | Commercialising an incontinence assessment technology. SUSPENDED FROM TRADING | 0.0% | 6.3% | \$0.017 |
| Lifespot Health | LSH | 6 | Acquired Lifespot AG, which has been developing a system for the diagnosis and evaulation of skin diseases, and BodyTel AG, which has been developing a system for the management, diagnosis and evaluation of chronic disease | 48.1% | -30.4% | \$0.080 |
| Imagion Biosystems | IBX | 5 | Developing MagSense, a diagnostic technology which exploits the principles of superparamagnetic relaxometry | -36.0% | -64.4% | \$0.016 |
| Adherium | ADR | 5 | Commercialising personal digital medication monitoring systems to improve patient compliance and medication efficacy | 3.6% | -75.8% | \$0.029 |
| Avecho Biotechnology | AVE | 5 | Commercialising a drug delivery system. Formerly Phosphagenics | 0.0% | -81.3% | \$0.003 |
| Race Oncology | RAC | 4 | 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. | -39.1% | -74.8% | \$0.053 |

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 28/6/19 |
|-------------------------|------|-------------|--|---------------------|------------------|------------------|
| Amplia Therapeutics | ATX | 4 | Developing drug candidates to treat fibrotic cancers and fibrosis. Formerly Innate Immunotherapeutics. | -30.7% | -66.0% | \$0.097 |
| Novita Healthcare | NHL | 4 | Design and development of training exercises that target core issues in early childhood and academic skills. Acquired Newly, and online matching marketplace which connects carers and aged care and disability support services | -40.0% | -65.7% | \$0.012 |
| Factor Therapeutics | FTT | 3 | Business under review following the failure of wound therapy VT001 to meet endpoints in Phase II trial | 33.3% | -91.5% | \$0.004 |
| Medigard | MGZ | 3 | Developing an injectable drug KT009 (endogenous recombinant protein GDF-6) to treat intervertebral disc degeneration. SUSPENDED FROM TRADING | 0.0% | 25.0% | \$0.020 |
| Cryosite | CTE | 2 | Provides specialised storage services, especially for umbilical cord blood | 11.1% | -44.4% | \$0.050 |
| Medibio | MEB | 2 | Commercialising a test for depression and anxiety | -47.1% | -93.3% | \$0.009 |
| Neurotech International | NTI | 2 | Development and sales of Mente (and platform), a treatment for improving behaviours of people with autism and other neurological conditions | 12.5% | -88.8% | \$0.018 |
| OBJ | OBJ | 2 | Developing transdermal drug delivery technologies | -22.2% | -50.0% | \$0.014 |

Capitalisation Total

14,031

Listed Biotech Investment Funds or Companies

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 30/6/19 |
|------------|------|-------------|--|---------------------|------------------|------------------|
| BTC Health | втс | 1 15 | Provides capital and management expertise to high-growth Australian biotech, medtech and pharmaceutical companies | -26% | -58% | \$0.085 |

Capitalisation Total

15

Botanical Product Companies (Cultivated Production)

| Company | Code | Cap. \$m | Principal Activities | Change - Quarter | Change - Year | Price 28/6/19 |
|----------------------------|------|-------------|--|---------------------|------------------|------------------|
| Elixinol Global | EXL | 517 | A supplier of hemp and medicinal cannabis products | -17.4% | 159.5% | \$3.750 |
| Cann Group | CAN | 278 | Medicinal cannabis company focused on the breeding, cultivation and production stages. Holds Australian ODC cultivation (MC) and research license (CR). | -14.8% | -44.0% | \$1.960 |
| Althea Group | AGH | 205 | Supply of branded medicinal cannabis products in Australia. To cultivate, extract and manufacture medicinal cannabis. Holds ODC manufacturing license. | 180.6% | | \$1.010 |
| THC Global Group | THC | 167 | A medicinal cannabis company formed through the acquisition of Canndeo, an off-shoot of Agri Fibre Industries.Holds Australian ODC cultivation (MC) and research license (CR). | 47.6% | 85.1% | \$1.240 |
| Auscann Group Holdings | AC8 | 106 | Developing medical cannabis products for the Australian market. Holds Australian ODC cultivation (MC) and manufacture license and TGA manufacture license. | -9.5% | -73.4% | \$0.335 |
| Palla Pharma | PAL | 86 | Licensed poppy producer. Narcotic raw material processor. Holds Australian ODC cultivation (MC) and research license (CR). Formerly TPI Enterprises. | -11.7% | -23.2% | \$1.060 |
| Medlab Clinical | MDC | 74 | Development, production and marketing of nutraceuticals. Also developing cannabis product to treat cancer patients with intractable pain. | -5.4% | -36.4% | \$0.350 |
| Creso Pharma | СРН | 70 | Development of cannabis and hemp derived therapeutic, nutraceutical, and life style products with wide patient and consumer reach for human and animal health. To be acquired. | 45.8% | -16.0% | \$0.525 |
| MGC Pharmaceuticals | MXC | 63 | A medical and cosmetic cannabis company with growing operations in Slovenia. Acquired Czech company Panax Pharma. | 48.6% | -21.2% | \$0.052 |
| Cann Global | CGB | 60 | To acquire 100% of Medcan Australia and 100% of Medical Cannabis Ltd. Medcan Australia has been granted an export and import license by the ODC. Relisting expected in 2019. | 0.0% | | \$0.037 |
| MMJ Phytotech | MMJ | 56 | Developing medical cannabis products for the Canadian market | 2.1% | -26.9% | \$0.245 |
| Zelda Therapeutics | ZLD | 30 | A medical cannabis company researching treatments for cancer, dermatological indications and for sleep disorders | -24.5% | -55.6% | \$0.040 |
| Bod Australia | BDA | 24 | Developer and distributor of natural, evidence-based cosmetics and natural medicines. Holds medicinal cannabis import license. Overseas partner is Linnea SA. | -8.1% | -37.0% | \$0.340 |
| Impression Healthcare | IHL | 23 | Seeking to obtain Commonwealth and state licenses to import, store, distribute and export medicinal cannabis, while diversifying from its dental products business | 66.7% | | \$0.040 |
| CannPal Animal Therap. | CP1 | 14 | Research and development of cannabis-based therapeutics for companion animals | 25.0% | -21.1% | \$0.150 |
| Affinity Energy and Health | AEB | 9 | Investor in Uruguayan company Biogenics. Has applied to the Australian ODC to cultivate and produce medicinal cannabis.SUSPENDED FROM TRADING | 0.0% | -55.0% | \$0.009 |
| Fiji Kava | FIJ | 6 | Cultivation and development of kava (piper methysticum) as an alternative treatment for anxiety, pain and insomnia. | 0.0% | | \$0.080 |
| eSense Health | ESE | 3 | Specialises in phytochemical profiling of plants to develop and reverse engineer terpenes for medical and other applications. | -26.1% | -76.4% | \$0.017 |

Capitalisation Total

1,791

Capitalisation Total - All

Indices

152,180

How Bioshares Rates Stocks

For the purpose of valuation, Bioshares divides biotech stocks into two categories. The first group are stocks with existing positive cash flows or close to producing positive cash flows. The second group are stocks without near term positive cash flows, history of losses, or at early stages of commercialisation. In this second group, which are essentially speculative propositions, Bioshares grades them according to relative risk within that group, to better reflect the very large spread of risk within those stocks. For both groups, the rating "Take Some Profits" means that investors may re-weight their holding by selling between 25%-75% of a stock.

Group A

Stocks with existing positive cash flows or close to producing positive cash flows.

Buy CMP is 20% < Fair Value **Accumulate** CMP is 10% < Fair Value

Hold Value = CMP

Lighten CMP is 10% > Fair Value Sell CMP is 20% > Fair Value

(CMP-Current Market Price)

Group B

Stocks without near term positive cash flows, history of losses, or at early stages 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.

Speculative Hold – Class A or B or C

Sell

Corporate Subscribers: Cogstate, Bionomics, LBT Innovations, Opthea, ResApp Health, Pharmaxis, Dimerix, Adalta, Actinogen Medical, Patrys, Cyclopharm, Emvision, Antisense Therapeutics

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