In this edition...

It was a dull September quarter for the biotech sector, but perhaps buffered with a sense of pending activity ahead. Only \$15 million was raised, the lowest since we started tracking raisings in 2002. The Bioshares Index was up slightly with only a few stocks posting solid gains.

Biota gained approval for its new flu drug (Inavir) in Japan, Mesoblast completed its merger with Angioblast. However, we are now waiting for three companies to gain approvals of their drugs in the December quarter – Acrux, Alchemia and Pharmaxis. The next quarter is sure to see considerably more activity!

The Editors

Companies Covered: BLT, Quarterly Review

	Bioshares Portfolio
Year 1 (May '01 - May '02)	21.2%
Year 2 (May '02 - May '03)	-9.4%
Year 3 (May '03 - May '04)	70.0%
Year 4 (May '04 - May '05)	-16.3%
Year 5 (May '05 - May '06)	77.8%
Year 6 (May '06 - May '07)	17.3%
Year 7 (May '07 - May '08)	-36%
Year 8 (May '08 - May '09)	-7.3%
Year 9 (May '09 - May '10)	49.2%
Year 10 (May '10 - Current)	-4.1%
Cumulative Gain	177%
Av Annual Gain (9 yrs)	18.5%

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

Blake Industry & Market Analysis Pty Ltd ACN 085 334 292 PO Box 193 Richmond Vic 3121 AFS Licence No. **258032**

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Individual Subscriptions (48 issues/year) \$350 (Inc.GST) Edition Number 379 (1 October 2010) ISSN 1443-850X

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Bioshares

1 October 2010 Edition 379

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

Quarterly Review

A Weak Result for the September Quarter

The **Bioshares Index** posted a modest 1.9% increase in the September quarter, unable to make up the 11.9% fall in the previous quarter. In contrast, the benchmark **Nasdaq Biotech Index** rose 11.9% in the September quarter, retracing much of the ground lost through a 14.8% fall in the previous quarter.

The **Bioshares Large Cap Index** dipped by 0.9% in the September quarter, although this stumble was much less than the 6.4% decrease that occurred in the June quarter. The **ASX 300 Index** increased by 6.8% in the September quarter.

Negative factors at play with life science company stock prices include the appreciation of the Australian dollar in major markets for goods sold by Australian firms on the one hand, and for cash-burning biotechs the continuance of a capital drought on the other. Only where companies have a very strong investment proposition, including a proximity to a market entry, and possibly a ranking position in a pre-committed portfolio of specialist investors is there a chance that a high level of capital can be sourced.

A highlight for the quarter was the approval by shareholders of the merger of **Mesoblast** with its associate company, **Angioblast Systems**, creating a company capitalised at \$648 million. Shares in Mesoblast rose 39% for the quarter, closing at \$2.57 on September 30, 2010. The merger addresses long standing suggestions that a single vehicle should exist that holds the IP and products that are based on Mesoblast's proprietary adult stem cell technology. With a capitalisation of greater than \$500 million as an investment criterion, Mesoblast's \$648 million capitalisation raises the attractiveness of the company to potentially a new set of investors looking to take a stake in the company.

Another highlight for the quarter was the receipt by **Biota**'s co-development partner **Daiichi Sankyo** of Japanese government approval of the long acting neuraminidase inhibitor, Inavir, for the treatment of influenza infection. We estimate that at a 4% royalty rate, Biota would stand to receive around US\$4.5-US\$7.5 million a year in royalties from sales of Inavir in Japan. Rest of world rights to Inavir have yet to be licensed out.

Capital Raisings

We calculate a total of \$15 million was raised by ASX-listed biotechs in the September quarter 2010. This is the lowest quarterly figure recorded since we began collating capital

- Cont'd over

Index performances by Quarter

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	Q3 2009	Q4 2010	Q1 2010	Q2 2010	Q3 2010			
Bioshares Index	35.1%	7.2%	-3.7%	-11.9%	1.9%			
Nasdaq Biotech Index	12.0%	0.5%	11.3%	-14.8%	11.9%			
Bioshares Large Cap Index	4.2%	0.2%	9.7%	-6.4%	-0.9%			
ASX 300 Index	20.1%	2.7%	0.0%	-11.8%	6.8%			

Quarterly Review cont'd

raising figures in 2002. The latest figure is 79% down from the previous quarter's figure of \$71 million. Adding in the March quarter raisings of \$90 million, the cumulative total for CY2010 is \$161 million.

Again no IPOs were successfully conducted in the September quarter. However, one was initiated, that of gene-directed enzyme pro-drug technology company, **Broadvector**, which is seeking to raise between \$5 and \$8.5 million.

Among capital raisings initiated or announced included those by **QRxPharma** (which announced a successful \$14 million placement on October 1, to be followed by an SPP), **CBio** (seeking \$9.3 million) and **Sunshine Heart** (seeking up to \$22 million).

The merger of privately-held plant biotechnology company **Farmacule** with ASX-listed **Aquacarotene**, and sale of Aquacarotene's algae-based production assets was concluded in the quarter. Aquacarotene is now included in the Bioshares Index. The very active biotech business figure, Mel Bridges, is the chairman of Aquacarotene. Bridges is also on the boards of **Impedimed**, **Alchemia, Benitec, Genera Biosystems, Tissue Therapies** and also **Campbell Brothers**. The lead application of the Farmacule technology will be to the production of the protein vitronectin. Vitronectin is the key protein used in Tissue Therapy's wound healing product, VitroGro. However, we understand that the Farmacule technology would most likely be applied to the production of vitronectin for research purposes.

Although capital inflows have declined considerably in latest quarter, it is worth noting a converse position, which is that as companies become profitable they build cash reserves which can be retained for business development. By way of example the cash balance of Sirtex Medical at June 30 was \$41.4 million, similarly Cellestis had \$22.6 million, Biota Holdings had \$104.9 million and Acrux had \$58.6 million of cash in the bank.

Out-Performers

The September quarter saw price gains made by a number of biotechs on the back of positive announcements. On the very last day of the quarter, gene technology company **Benitec** announced that it had been successful in defeating a challenge at the US PTO to a key patent (the 'Graham patent'). The shares closed the quarter at 4 cents, posting a 48% increase from the previous day, with 42 million shares being turned over. However, the gain over the quarter for Benitec shares was 25%. (See further commentary on page 4)

The three strongest movers for the quarter in the Bioshares Index were **Actinogen** (\$0.11) up 307%, **Imugene** (\$0.09) up 165%, and **Ellex Medical Lasers** (\$0.33) up 120%.

Investment interest in **Actinogen** (capitalised at \$4 million), was stimulated by the company's announcement of a discovery it had made concerning a new method to produce anacardic acid in pure form from a class of bacteria known as actinomycetes.

Although **Imugene**'s share price remains 33% below its price a year ago, the stock found support following what appeared to be

end-of-financial year tax loss selling, and also the announcement of the successful completion of a second trial of the company's porcine reproductive and respiratory syndrome (PRRS) virus vaccine.

Ellex Medical's share price moved in response to the company's announcement of positive earnings guidance for FY2010, fore-shadowing a 13% improvement over the previous corresponding period (excluding impairment charges of \$23 million). Reported earnings of \$3.76 million increased by 16% from the previous year, excluding impairment charges. However, sales declined by 19% for FY2010.

Another strong mover was **Nanosonics**, which saw its share price (\$0.79) increase 49% over the quarter. The increase was associated with the appointment of **GE Healthcare** as distributor for North America of the company's Trophon product, a device used to disinfect ultrasound probes. The company also stated that it held a strong forward order book. Anticipation of a successful FDA 510k approval, expected in the near term, may have also been a factor in the share price increase

Impedimed, which is marketing the L-Dex device for aiding in assessment of lymphoedema in women who have had surgery following breast cancer, locked in a convincing 42% gain for the quarter, finishing at \$0.80. During the quarter, Impedimed secured contracts with three US managed care organisations, which collectively manage 13.5 million insured lives.

Wound-treatment company **Tissue Therapies** registered an increase of 31% in its share price for the quarter. This increase was associated with the release of further data from a trial of its Vitrogro product in 30 patients in Perth, reporting that 5 of 30 patients achieved complete wound healing in 24 days.

Acrux's share price rose by 32%, as the company moved closer to the objective of having its male testosterone product Axiron approved by the FDA, an event we suggest has a likelihood of occurring in late November this year.

Complementary medicines outfit **Blackmore**'s, one company without a US dollar exposure on its earnings, saw its share price increase 27% over the September quarter. The company recorded a 17% in net profit after tax in FY2010 to \$24.3 million.

Under-Performers

A majority of companies (63 out of 111) recorded a fall in their share prices over the September quarter 2010.

CBio, which is developing Xtoll as a therapy for rheumatoid arthritis, saw its share price fall 83% to \$0.175. CBio listed at a \$1.00 in February 2010, raising \$7 million, after originally seeking a maximum of \$30 million in its first prospectus and a minimum of \$13 million. The company recently announced a rights issue, seeking to raise \$9.3 million.

Pharmaust recorded a 79% decrease in its share price for the quarter. In the first half of 2010, the company undertook a capital rais-

- Cont'd on page 4

Company	Investment Manager or Investor	Type of raising	Funds raised (\$M)
Cordlife		Rights Issue	\$6.00
Eastland Medical	Paterson Securities	Placement	\$2.28
Prima Biomed	Springtree Spec. Opp. Fund	Conv. Loan Funding (T12,T13,T14)	\$2.10
Immuron		Placement	\$0.75
Immuron		SPP	\$0.69
Biodiem		Rights Issue (Shortfall Placement)	\$1.00
Patrys	Advance Opportunities Fund	2% Equity Linked Redeemable Structured CN	\$0.50
Helicon Group	Cunningham Peterson Sharbanee Securities Pty Ltd	Rights Issue	\$0.46
CBio	Springtree Spec. Opp. Fund	Conv. Loan Funding (T3,T4,T5)	\$0.45
Neuren Pharm.	Springtree Spec. Opp. Fund	Conv. Loan Funding (T3,T4,T5)	\$0.30
Healthlinx	Springtree Spec. Opp. Fund	Conv. Loan Funding (T10,T11)	\$0.18
CBio		Convertible Note	\$0.15
Neurodiscovery	Cunningham Peterson Sharbanee Securities Pty Ltd	Rights Issue	\$0.29
Total raised in Q3 2010	•		\$15.1
Total raised in Q2 2010			\$71.1
Total raised in Q1 2010			\$90.0
Total - 2010			\$161.2

Capital Raisings by Australian-listed Biotech Companies Q3 2010

Selected Clinical Trial Developments - Sept Quarter 2010

Company	Code	Product/Therapeutic	Event
CBio	CBZ	Xtoll (rheumatoid arthritis)	Completed recruitment in Phase II trial.
QRxPharma	QRX	MoxDuo IV (pain)	Announced results of Phase II 40 pt comparitive POS study of MoxDuo delivered intravenously. SPID scores w ere 10% higher in study group compared to morphine alone.
Sirtex Medical	SRX	SirSpheres (kidney cancer)	Commenced trial in 24 kidney cancer patients.
Tissue Therapies	TIS	VitroGro (w ound healing)	Interim results, Perth study - of 30 pts, 16.7% complete healing within 24 days; ave reduction in size w as 49%
Biota	BTA	BTA798 (rhinovirus infection)	Commenced Phase II trial in 400 pts with chronic asthma experiencing rhinovirus infection
Clinuvel Pharmaceuticals	CUV	Scenesse (afamelonitide) (EPP)	Announced results from Phase III trial in erythropoietic protoporphyria (EPP). Although results w ere statistically significant, certain actual figures w ere not made available.
Immuron	IMC	Imm122-1/Imm124-E (Fatty liver disease)	Reported results from 20 pt trial. Improved liver function reported, as w ell as improved insulin function.
Living Cell Technologies	LCT	DiaBCell	Received approval to include more pts in NZ trial (currently 8 enrolled)
Starpharma	SPL	Vivagel (bacterial vaginosis)	Commenced Phase II study

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Company	Price (current)	Price added to portfolio	Date added
Phylogica	\$0.049	\$0.053	September 2010
Sunshine Heart	\$0.030	\$0.036	June 2010
Biota Holdings	\$0.98	\$1.09	May 2010
Tissue Therapies	\$0.23	\$0.21	January 2010
QRxPharma	\$0.93	\$0.25	December 2008
Hexima	\$0.29	\$0.60	October 2008
Atcor Medical	\$0.12	\$0.10	October 2008
Impedimed	\$0.77	\$0.70	August 2008
Mesoblast	\$2.55	\$1.25	August 2008
Circadian Technologies	\$0.56	\$1.03	February 2008
Patrys	\$0.08	\$0.50	December 2007
Bionomics	\$0.28	\$0.42	December 2007
Cogstate	\$0.26	\$0.13	November 2007
Sirtex Medical	\$4.80	\$3.90	October 2007
Clinuvel Pharmaceuticals	\$0.20	\$0.66	September 2007
Starpharma Holdings	\$0.56	\$0.37	August 2007
Pharmaxis	\$2.15	\$3.15	August 2007
Universal Biosensors	\$1.40	\$1.23	June 2007
Acrux	\$2.40	\$0.83	November 2004
Alchemia	\$0.49	\$0.67	May 2004

Portfolio Changes – 1 October

IN: No changes.

OUT: No changes.

- Quarterly Review cont'd

ing and then took a 10% stake in an oil and gas project. However, operations on the well were suspended in September.

On September 17, Fluorotechnics announced it would sell some if not all of its assets, effectively winding up its proteomics research tools business. Shares in Fluorotechnics fell 68% in the quarter and were down 91% from a year ago. Three rights issues, raising \$4.6 million since it listed in October of 2008 (when it raised \$8 million), have been insufficient to support the company through difficult trading conditions.

Probiotec's share price has been weakening throughout 2010, however, the release of full year results which showed a 14% decrease in sales, contributing to a 27% drop in its share price for the September quarter.

Biotech investment group **Biotech Capital** announced plans to wind up itself as a listed investment vehicle during the quarter. Biotech Capital had accumulated losses of \$23.6 million at June 30, 2010. Biotech Capital shares fell by 51% in the three months ending September 30, 2010, to close the quarter at \$0.089. The investment firm announced the payment of a 2 cent dividend on 31 August 2010 and declared a net tangible asset backing of 21.4 cents per share for the same date.

Bioshares

Benitec – Scores Second Major Advance for 2010

Benitec (BLT: 3.6 cents) has received a favourable decision relating to its core US patent, referred to as the '099 Graham patent. All previous rejections to the patent have now been reversed. It is expected a new patent will be re-issued to Benitec shortly to reflect the recent decision.

While this patent has been granted in other regions with no claim rejections, the US patent position had been unclear. Benitec has now cleared two major commercial obstacles this year: in January it reached a settlement with the CSIRO to renegotiate on more favourable commercial terms an agreement between the two groups over rights to the ddRNAi technology; and it has now had its core patent uncertainties cleared in the US.

Both of these developments will place Benitec in a better position to license use of the technology to other biotech and pharmaceutical companies, will position it better to partner out existing programs, and should place the company in a better position to attract funding. The patent decision also clears the way for an acquisition of the company.

The '099 Graham patent expires in 2018, which provides only eight years of protection excluding patent extensions. Benitec has had two other patents granted in the US in the last three months which take out protection to at least 2026 and the company has 12 families of patents including filed and approved.

Bioshares recommendation: Speculative Class B

Bioshares

The Australian Listed Life Sciences Sector

September 30, 2010: Capitalisation \$34.9 billion, 111 companies

Bioshares Large Cap. Index

Company	Code	Cap. \$m	Principal Activities	Change - Quarter	Change - Year	Price 30/09/10
CSL	CSL	18,114	Manufactures pharmaceutical products including vaccines and human plasma fractions	1%	-1%	\$33.05
Resmed Inc.	RMD	5,125	Manufactures diagnostic and treatment equipment for sleeping disordered breathing	-7%	30%	\$3.38
Cochlear	СОН	3,974	Manufactures cochlear hearing implants	-5%	5%	\$70.25
Sigma Pharmaceuticals	SIP	566	Pharmaceutical manufacturing and wholesaling	14%	-55%	\$0.48
Capitalisation Total		27,778		<u>.</u>		

Company	Code	Cap. \$m	Principal Activities	Change - Quarter	Change - Year	Price 30/09/10
Heartware International	HIN	1,014	Developing a mechanical heart pump (LVAD)	-16%	118%	\$2.09
Mesoblast	MSB	648	Developing therapies based on mesenchymal pre-cursor stem cells, with applications in cartilage regrowth and heart and bone repair.	39%	150%	\$2.57
Pharmaxis	PXS	490	Marketing a lung function test, Aridol, and developing the Bronchitol product to treat cystic fibrosis, bronchiectasis and COPD.	5%	-10%	\$2.17
Blackmores	BKL	471	Manufactures vitamin, mineral and herbal supplements and skin & hair products in Australia and N.Z.	27%	39%	\$28.26
Acrux	ACR	390	A Pooled Dev. Fund commercialising a drug delivery technology that uses sunscreen penetration enhancers to aid transdermal drug delivery	32%	40%	\$2.39
Unilife Corporation	UNS	335	Developer of retractable syringes	-7%	-25%	\$1.04
Sirtex Medical	SRX	273	The company's core technology uses radioactive particles to irradiate tumours in the liver. Approved for use in most major regions.	0%	1%	\$4.89
API	API	254	Pharmaceutical wholesaler	33%	-39%	\$0.52
Universal Biosensors	UBI	228	Development, manufacture and commercialisation of a range of in vitro diagnostic tests for point-of-care use	-6%	8%	\$1.45
Cellestis	сѕт	226	Marketing a diagnostic for latent tuberculosis	-15%	-30%	\$2.35
Nanosonics	NAN	179	Developing a novel disinfection technology, the first product is a point of care ultrasound probe disinfection unit	49%	61%	\$0.79
Biota	вта	172	Developer of anti-infective drugs, including the flu drug Relenza. Inavir, developed with Daiichi Sankyo, a long acting flu drug now approved in Japan.	-6%	-65%	\$0.96
Starpharma Holdings	SPL	134	Developer of pharmaceutical applications of chemical scaffolds known has 'dendrimers'.	4%	-2%	\$0.56

Company	Code	Cap. \$m	Principal Activities	Change - Quarter	Change - Year	Price 30/09/10
Impedimed	IPD	109	Develops devices that aid the diagnosis of secondary lymphoedema, muscle wasting and other disorders	42%	21%	\$0.80
QRxPharma	QRX	102	Developing a 'dual opioid' drug to treat moderate to severe pain.	-15%	9%	\$1.00
Scigen	SIE	97	Developer and manufacturer of biopharmaceuticals. Company is based in Singapore and was spun out of Sonic Healthcare in 2002.	-42%	46%	\$0.18
ChemGenex Pharmaceuticals	CXS	96	Developer of the drug Omacetaxine, which has potential to treat CML patients that develop the T315i mutation.	15%	-54%	\$0.34
Alchemia	ACL	93	Commercialising new solid phase carbohydrate synthesis technology. First product, a synthetic heparin, to be launched by Dr Reddy's in 2009/10	-6%	-15%	\$0.49
pSiVida	PVA	91	Developing drug delivery technologies, with a special focus on opthalmic applications	40%	-1%	\$4.90
Halcygen Pharm.	HGN	88	Developing an improved dosing anti-fungal drug, Subazole and operating manufacturing services	5%	31%	\$0.59
Bionomics	BNO	88	Developing drugs to treat cancer and CNS diseases, and has also developed a gene diagnostic for epilepsy.	2%	2%	\$0.28
Prima Biomed	PRR	73	Developing the CVac immunotherapy.	-5%	-43%	\$0.10
Ascent PharmaHealth	APH	72	A generic pharmaceutical manufacturer and distributor. Strides ArcoLabs intends to buy out minority shareholders.	7%	23%	\$0.29
Phosphagenics	РОН	69	Commercialising a drug delivery technology improving the delivery of vitamin E and existing pharmaceutical products through phosphorylation.	-7%	-3%	\$0.09
Clinuvel Pharmaceuticals	CUV	62	Developing an analogue of the alpha-MSH protein, named Scenesse, as a photo-protective agent	-9%	-39%	\$0.21
Clovercorp	CLV	57	Development and production of omega-3 food additives from tuna oil.	23%	73%	\$0.35
Probiotec	PBP	50	Manufacturer, marketer and distributor of a range of over the counter (OTC) pharmaceuticals, complementary medicines and speciality ingredients	-27%	-62%	\$0.95
Living Cell Technologies	LCT	50	Developing cell therapies for diabetes, haemophilia and Huntington's disease	-19%	-26%	\$0.18
Solagran	SLA	45	Developing complementary medical compounds called Bioeffectives.	20%	-3%	\$0.15
Cordlife	СВВ	42	Rolling out tissue banking services in Australia and Asia	-11%	-19%	\$0.33
CathRx	CXD	39	Developing novel modular cardiac catheters for the diagnosis and treatment of abnormal heart rhythms	4%	-31%	\$0.28

Company	Code	Cap. \$m	Principal Activities	Change - Quarter	Change - Year	Price 30/09/10
Somnomed	SOM	37	Commercialising an oral device for the treatment of sleep apnea and snoring.	18%	57%	\$0.94
Tissue Therapies	TIS	32	Developing the VitroGro product for ulcer and wound healing	31%	15%	\$0.24
Prana Biotechnology	РВТ	30	Developing drugs to treat CNS diseases such as Alzheimer's and Parkinson's	-19%	-47%	\$0.13
OBJ	OBJ	29	Developing transdermal drug delivery technologies	18%	550%	\$0.03
Anteo Diagnostics	ADO	29	Developer of a biological coatings technology that can be applied to immunoassays, bio-separations, drug delivery and other medical devices	-6%	467%	\$0.05
Ellex Medical Lasers	ELX	28	Develops, manufactures and markets solid state ophthalmic lasers used to treat secondary cataracts and retinal disorders.	120%	83%	\$0.33
Genera Biosystems	GBI	28	Develops, manufactures and distributes advanced molecular diagnostic tests, with a particular focus on women's health.	-2%	-45%	\$0.44
Immuron	IMC	26	Specialises in R&D of hyper-immune bovine colostrum products for therapeutic use in animals and humans.	22%	17%	\$0.08
Avexa	AVX	26	Programs suspended. Direction of company being debated by shareholders.	-6%	-73%	\$0.03
Circadian Technologies	CIR	26	Developing drugs, including antibodies, around the VEGF C and VEGF D targets	12%	-28%	\$0.56
Institute of Drug Technology	IDT	26	Manufacturer of pharmaceutical ingredients to international standards for major pharmaceutical groups.	-3%	-66%	\$0.60
Southern Dental Industries	SDI	24	Manufacture & distribution of amalgam (fillings) & other dental materials and product R&D.	11%	-20%	\$0.20
Compumedics	CMP	23	Develops, manufactures and markets sleep diagnostic and monitoring equipment.	8%	-24%	\$0.14
Agenix	AGX	22	Reinstated 10-9-2010. Developing a compound to treat Hepattis B, AGX1009. Also seeking a partner in China to develop Thromboview, an imaging agent.	-6%	94%	\$0.03
Hexima	HXL	21	Research and development of genetic technologies that can enhance the resistance of crops to insects and fungal pathogens.	20%	-52%	\$0.27
Progen Pharmaceuticals	PGL	21	A developer of cancer therapeutics	-13%	-42%	\$0.35
Eastland Medical Systems	EMS	20	Developing the anti-malarial product ArTiMist.	32%	-31%	\$0.05
Brain Resource Corp	BRC	19	Development and commercialisation of functional brain analysis techniques	-2%	-22%	\$0.21

Company	Code	Cap. \$m	Principal Activities	Change - Quarter	Change - Year	Price 30/09/10
Benitec	BLT	18	R&D company focusing on gene silencing, specifically DNA delivered RNAi, technology	25%	-13%	\$0.04
Viralytics	VLA	18	Developing a cancer treatment based on the application of viruses (oncolytic virus technology)	-11%	10%	\$0.03
Cogstate	CGS	17	Marketing cognitive performance diagnostic products	4%	6%	\$0.26
Sunshine Heart	SHC	16	Developing the C-Pulse heart assist device. The C-Pulse wraps around and compresses the aorta, increasing blood flow through the body.	-19%	-36%	\$0.03
Patrys	PAB	14	Developing human antibody therapies for the treatment of lung, pancreatic, gastric and colon cancers	-25%	-46%	\$0.08
Biodiem	BDM	14	Focused on the development of LAIV influenza vaccines	27%	-20%	\$0.14
NuSep	NSP	14	Manufacture and sale of protein separations technologies	17%	41%	\$0.24
USCOM	UCM	13	Marketing a non-invasive heart output function monitor	-9%	-60%	\$0.32
Medical Developments	MVP	13	Commercialising the Penthrax inhaler for temporary pain relief. Used widely in ambulances across Australia.	21%	63%	\$0.26
Advanced Surgical Design & Manufacture	AMT	13	A developer and manufacturer of prosthetic implants and medical devices	-14%	-8%	\$0.37
Imugene	IMU	13	Developing animal products such as antibiotic alternatives used in the stock feed industry using a vaccine and gene therapy approach	165%	-33%	\$0.09
Novogen	NRT	13	Developing analogues of naturally occurring phenolic hormones to treat cancers and other conditions.	-24%	-83%	\$0.13
Healthlinx	нтх	12	Detecting novel functions of known and new protein and peptides for therapeutic purposes.	-21%	-6%	\$0.08
Atcor Medical	ACG	12	Markets the SphygmoCor device, a noninvasive technology that provides information regarding the functioning of the cardiovascular system	4%	-29%	\$0.12
Phylogica	PYC	12	Developing peptide compound libraries for use in human therapeutics.	-27%	-49%	\$0.05
Austofix	AYX	12	Manufacturer and developer of orthopeadic fixation devices	-5%	12%	\$0.95
Cbio	CBZ	12	Drug development company, focus is on Xtoll product for rheumatoid arthritis	-83%	0%	\$0.18
Stirling Products	STI	11	Development of a drug inhaltion platform and involved in telemedicine	50%	0%	\$0.01

Company	Code	Cap. \$m	Principal Activities	Change - Quarter	Change - Year	Price 30/09/10
Cyclopharm	СҮС	11	A nuclear medicine company that markets the Technegas lung imaging system	-14%	-12%	\$0.07
Avita Medical	AVH	11	Markets ReCell, a skin repair product	-13%	-41%	\$0.10
Genetic Technologies	GTG	11	Provides DNA paternity testing services and holds broad patents relating to the use of non-coding DNA.	-26%	-53%	\$0.03
Vita Life Sciences	VSC	10	Development, manufacture and distribution of prescription and OTC medicines as well as complementary and alternative medicines, dietary supplements and health foods	-17%	6%	\$0.19
Analytica	ALT	9	A medical devices company that has developed a retractable syringe	-15%	0%	\$0.02
KarmelSonix	кѕх	9	Respiratory and pulmonary devices company	-28%	-78%	\$0.01
LBT Innovations	LBT	9	Developed the MicroStreak technology for the automation of microbiology laboratory processing	35%	-41%	\$0.09
Calzada	CZD	8	Holds a 100 % stake in PolyNovo, a polymer chemistry company.	-4%	-25%	\$0.02
Antisense Therapeutics	ANP	8	Developing antisense compounds to treat multiple sclerosis and acromegaly	8%	-72%	\$0.01
Biotron	BIT	8	Developing a compound to treat HCV	-3%	-54%	\$0.06
Tyrian Diagnostics	TDX	7	Developer of diagnostic products, including the ReadRite- Alpha Amylase test (a wheat quality test)	56%	-39%	\$0.01
Neuren Pharmaceuticals	NEU	7	Developing neuroprotective therapeutics	-15%	-53%	\$0.02
ITL	ITD	7	Develops and distributes medical devices such as safety equipment to prevent needle stick injuries and sterile preparation kits.	-12%	-35%	\$0.05
Cellmid	CDY	7	Developing therapies that target the midkine protein	5%	-26%	\$0.02
Bone Medical	BNE	6	Developing treatments for bone and joint degenerative diseases such as arthritis and osteoporosis.	-39%	-68%	\$0.06
Resonance Health	RHT	6	Marketing the FerriScan technology, a non-invasive tool for measuring liver iron levels	-6%	7%	\$0.02
Optiscan Imaging	OIL	6	Manufacture of confocal microscopes for clinical diagnosis	-15%	-60%	\$0.04
BioProspect	вро	6	Developing insecticides from naturally occurring molecules	-23%	-57%	\$0.01

Company	Code	Cap. \$m	Principal Activities	Change - Quarter	Change - Year	Price 30/09/10
Acquacarotene	AQL	6	Merged with Farmacule BioIndustries (11-8-2010), a plant genetic technologies business; divested algae farm assets. 1:20- reconstruction 9-6-2010.	20%		\$0.18
Virax Holdings	VHL	5	Developing a therapeutic and prophylactic vaccine for HIV	-55%	-58%	\$0.03
Holista Colltech	нст	5	Has developed a novel technology for the extraction of collagen from sheepskins	-13%	-35%	\$0.10
IM Medical	IMI	5	Markets the Intelliheart Cardiovascular Diagnostic System	0%	-75%	\$0.00
Medigard	MGZ	5	Developed retractable syringe technology and other safety medical products.	-58%	-57%	\$0.05
Cryosite	CTE	5	Provides specialised storage services, especially for umbilical cord blood	-17%	11%	\$0.10
Actinogen	ACW	4	Early stage developer of antibiotics that show activity against MRSA and VRE bacteria	307%	57%	\$0.11
PharmAust	PAA	4	Operates Epichem and PharmAust, which provide products and services to biotech and pharma companies. Holds oil and gas investments.	-79%	-53%	\$0.02
Probiomics	PCC	3	Proprietary ownership of a unique probiotic strain	-9%	-17%	\$0.01
BioMD	BOD	3	Developing a tissue engineering technology, termed ADAPT	-13%	-64%	\$0.02
NeuroDiscovery	NDL	3	Focusing on pain drug development following pending management buyout of electrophysiology business	-17%	-27%	\$0.03
Acuvax	ACU	2	Holds interests in various therapeutics and vaccines	-25%	-87%	\$0.00
Atos Wellness	ATW	2	Manages wellness centres in Singapore, Malaysia, India, Australia, Austria and Germany. Suspended from quotation.	-33%	0%	\$0.01
Giaconda	GIA	2	Developed novel (patented) combinations of registered drugs for the treatment of gastrointestinal disorders.	-7%	-80%	\$0.03
Helicon Group	НСG	2	Exploiting niche market opportunities for medical products in China and other Asian markets.	-7%	-83%	\$0.01
Fluorotechnics	FLS	2	Development and sale of scientific equipment and consumables, including fluroescent stains	-68%	-91%	\$0.04
Select Vaccines	SLT	1	Vaccine assets sold and is seeking new business	0%	0%	\$0.004
Genesis Research & Development Corp.	GEN	1	Operations suspended	-8%	-62%	\$0.02

Company	Code	Cap. \$m	Principal Activities	Change - Quarter	Change - Year	Price 30/09/10
Telesso Technologies	TEO	1	Investigating new business activities	-17%	-75%	\$0.01
Conitalization Total		7 058				

Capitalisation Total

7,058

Listed Biotech Investment Funds or Companies

Company	Code	Cap. \$m	Principal Activities	Change - Quarter	Change - Year	Price 30/09/10
BPH Corporate	врн	44	Formerly Biopharmica. Managing cancer treatment and detection and bacterial DNA diagnostic projects. Portfolio investment approach.	121%	0%	\$0.15
Biotech Capital	BTC	7	A Pooled Development Fund investing in unlisted Australian biotech companies and in public biotechs, including Alchemia, Starpharma, Neurodiscovery and Phylogica.	-51%	-63%	\$0.09
Xceed Capital	XCD	2	Owns 100% of Boron Molecular, a chemistry services company.	20%	-54%	\$0.01
Capitalisation Total		53	•			

Capitalisation Total - All Indexs

34,890

Stocks with exis	sting positive cash flows or close to producing positive cash	These stocks may have more than one product or opportunity, and			
flows.		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			
Buy	CMP is 20% < Fair Value	management or board may need strengthening.			
Accumulate	CMP is 10% < Fair Value	Speculative Buy – Class C			
Hold	Value = CMP	These stocks generally have one product in development and lack			
Lighten	CMP is 10% > Fair Value	many external validation features.			
Sell	CMP is 20% > Fair Value	Speculative Hold – Class A or B or C			
(CMP-Current	t Market Price)	Sell			
-		, Cogstate, Bionomics, ChemGenex Pharmaceuticals, Circadian			
-		med, QRxPharma, Patrys, LBT Innovations, Hexima, Tyrian			
Diagnostics,	Mesoblast, Atcor Medical, BioMD, Tissue Therapie	es, Viralytics, Phosphagenics			
represent the curr interests in secur company's invest document withou information herei contained herein l Directors and/or a	rent judgement of the publisher and are subject to change. Blake Industry a rities referred to herein (Corporations Law s.849). Details contained here truent objectives, financial situation and particular needs. Accordingly, no r at consulting their investment adviser (Corporations Law s.851). The perso in is accurate but no warranty of accuracy is given and persons seeking to have been issued on the basis they are only for the particular person or comp associates declare interests in the following ASX Healthcare and Biotechne C, IMU, PAB, PBP, PXS, PYC, SHC, SPL, TIS, UBI. These interests can cl	respecting any company, industry or security. The opinions and estimates herein expressed and Market Analysis Pty Ltd (BIMA) and any of their associates, officers or staff may have ein have been prepared for general circulation and do not have regard to any person's or ecipients should rely on any recommendation (whether express or implied) contained in this ons involved in or responsible for the preparation and publication of this report believe the rely on information provided herein should make their own independent enquiries. Details pany to whom they have been provided by Blake Industry and Market Analysis Pty Ltd. The plogy sector securities: ACL, ACR, ADO, BNO, BTA, CGS, COH, CSL, CUV, CZD, FLS, hange at any time and are not additional recommendations. Holdings in stocks valued at less			
	For multiple email distributions w the same business cost centre, ou	ronic distribution): \$350 vithin \$550 2-3 email addresses r \$750 4-5 email addresses			
	pricing structure is as follows:	\$950 6-10 email addresses			
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How Bioshares Rates Stocks

Bioshares

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 accordin relative risk within that group, to better reflect the very large

of risk within those stocks. Group A St

Group B

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

Speculative	Buv –	Class A
peculative	Duy	0100511

essen-	These stocks will have more than one technology, product or
ng to	investment in development, with perhaps those same technologies
spread	offering multiple opportunities. These features, coupled to the
1	presence of alliances, partnerships and scientific advisory boards,
	indicate the stock is relative less risky than other biotech stocks.
	Speculative Buy – Class B
ve cash	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
	JELL