

20 October 2015

Markets Announcements Office
ASX Limited Exchange Centre
20 Bridge Street
SYDNEY NSW 2000

Genetic Signatures CEO to present at the 6th Annual Australian Microcap Investment Conference

- **The largest conference in Australia focussed on emerging companies**
- **Presentations will be given by the CEOs of 20 of Australia's leading microcaps**
- **Genetic Signatures to present its global growth strategy for the development and supply of world leading diagnostic solutions**

Sydney, Australia, 20 October 2015: Genetic Signatures (ASX: GSS) is pleased to release a copy of the presentation that Chief Executive Officer, John Melki, PhD., will deliver today at the 6th Annual Australian Microcap Investment Conference.

Dr Melki will present on Genetic Signatures' technology, commercialisation progress, financial results, and track record. The presentation will also detail the Company's global revenue growth strategy for the sale of world leading solutions for the rapidly growing infectious disease detection market.

Dr Melki said: "It is pleasing that Genetic Signatures is seen as one of Australia's leading microcap investment opportunities. It is an exciting time for the Company and I am looking forward to sharing the news of our success to date and plans for future global expansion and growth."

For further details:

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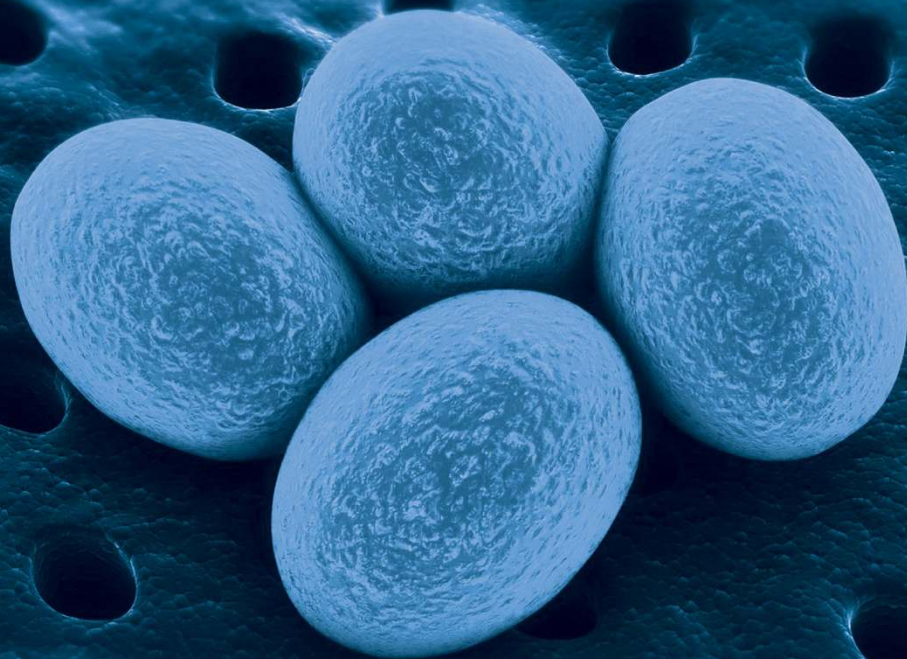
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About the Annual Australian Microcap Investment Conference: The Annual Australian Microcap Investment Conference commenced in 2010 and provides an exciting opportunity for the investment community to hear first hand from over 20 of Australia's leading microcap CEO's about their strategy, their business environment and their growth prospects. The conference has grown to be the

largest conference in Australia focussed on emerging companies and regularly attracts over 300 delegates from Australia and internationally.

About Genetic Signatures Limited: Genetic Signatures is a specialist molecular diagnostics (MDx) company focused on the development and commercialisation of its proprietary platform technology, **3Base™**. Founded in 2001 by the late Dr Geoffrey Grigg, the former Chief of Molecular Biology at CSIRO, Genetic Signatures has released a suite of real-time Polymerase Chain Reaction (PCR) based products for the routine detection of infectious diseases under the **EasyScreen™** brand. MDx is a modern technique increasingly used by hospitals and pathology laboratories to detect specific sequences of the genome, the DNA or RNA that define an organism. Genetic Signatures' proprietary MDx **3Base™** platform technology provides high-volume hospital and pathology laboratories the ability to screen for a wide array of infectious pathogens, with a high degree of specificity, in a rapid throughput (time-to-result) environment. Genetic Signatures' current target markets are major hospital and pathology laboratories undertaking infectious disease screening. As the spread of infectious diseases around the world continues to grow, the Company plans to launch additional products for the detection of pathogens associated with MRSA, sexual health infections, tuberculosis and meningitis.



Genetic Signatures

2015 Microcap Conference

Disclaimer

This presentation was prepared by Genetic Signatures Limited known as “Genetic Signatures“, (“GSS” or “the Company”), in order to discuss its business with various interested parties. This presentation in its entirety has been released to the market via the Australian Securities Exchange Limited (“ASX”).

This presentation contains statements that involve estimates, risks and uncertainties. Although the Company believes these statements to be reasonable at this time, Genetic Signatures can give no guarantee that the expectations reflected in these statements will prove to be accurate. Actual results could differ materially from those expected for any of a multitude of risks including, but not limited to, those inherent in regulatory or market environments or more generally. In preparing this presentation, the Company has relied upon and assumed, without independent verification, the accuracy and completeness of all information available from public sources, or which was otherwise reviewed by it.

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Transforming Molecular Diagnostics

Genetic Signatures is a molecular diagnostics (MDx) company operating in the global IVD (*in vitro* diagnostics) industry with new technology in infection control.

Our primary focus is the **development and supply of world leading diagnostic solutions** to hospitals and pathology laboratories globally for rapid detection and treatment of infectious diseases.



Corporate Summary

Capital Structure	
ASX Code	GSS
Shares on Issue	72.9m
Market Capitalisation	\$34m
Share Price (at market close 16 October, 2015)	\$0.465
Cash at June 30	\$5.46m

Directors & Chief Executive	
Nick Samaras	Non-Executive Chairman
John Melki	Director & CEO
Mike Aicher	Executive Director - US
Phillip Isaacs	Non-Executive Director
Tony Radford – appointed 15 th September 2015	Non-Executive Director

Board and Management

Nick Samaras - Non-Executive Chairman

BSc (Hons), PhD, MBA, FAIM, FAICD

- More than 25 years' experience in the global life sciences industry, senior executive roles with Applied Biosystems and Perkin Elmer
- NHMRC Research Committee member 2006-12, Adjunct Professor La Trobe University, Founder of consulting firm Australia Biosciences and Director of the AGRF and MuriGen Therapeutics

John Melki - Managing Director & CEO

BSc (Hons), PhD

- Chief Executive Officer since 2011, joined GSS in 2003
- Led the commercialisation of two research products worldwide and five diagnostic products in Australia and Europe

Mike Aicher - Executive Director – US Operations

BSc, MBA

- More than 30 years of industry experience
- Previously CEO and founder of National Genetics Institute (NGI), acquired by Laboratory Corporation of America, Inc (Labcorp) in 2000
- Responsible for LabCorp's Esoteric Businesses in the U.S. which generated more than \$1 billion in annual revenue
- Director on boards of Kinetic Diagnostics Inc and Omicia, Inc

Board and Management

Tony Radford- Non-Executive Director

BSc (Hons), PhD

- Former CEO of Cellestis from founding until its acquisition by QIAGEN NV in 2011 for approximately \$400 million
- Previous Head of Development in 2000 at AMRAD in pharmaceutical research
- a member of the CSIRO team that invented the QuantiFERON method for Cellular Immune based diagnostics
- Co-founded the diagnostic company Cellestis Limited which listed on the ASX in 2001
- Established offices and operations in the USA, Europe and Japan, Cellestis developed QuantiFERON –TB Gold, the worldwide benchmark for the diagnosis of tuberculosis infection

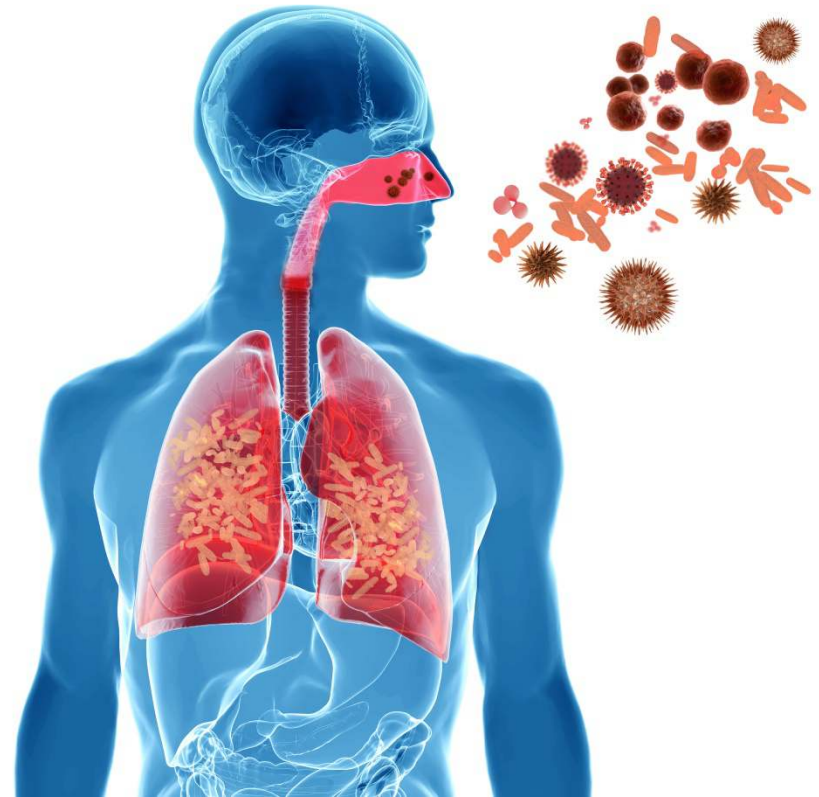
Phillip Isaacs - Non-Executive Director

MSc, JP

- More than 30 years of industry experience
- Previously Managing Director, Asia Pacific, for Beckman Instruments
- Vice President of the Asia Pacific Cytoc Corporation which developed and sells the ThinPrep Pap
- Founding Chairman of the Australian Proteome Analysis Facility (APAF) in Sydney

Company Overview

- Genetic Signatures provides diagnostic solutions for rapid pathogen detection
- Proprietary technology driving product development for pathology and hospital customers globally in multiple markets, with IP protection to 2031
- Products already available in Australia and now launching into large global markets, worth **US\$1.11 billion** in 2012 growing to **US\$1.77 billion in 2017**
- Experienced management team and board with track record in global molecular diagnostics industry

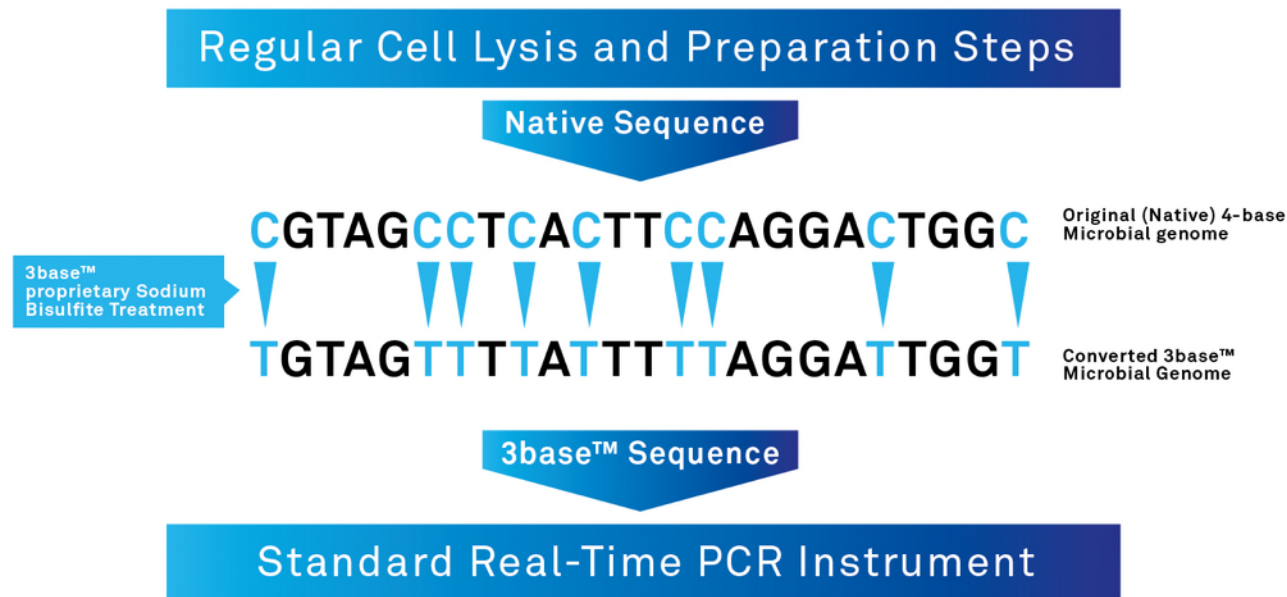


Technology - 3Base™

Platform technology converts original 4-base microbial genome to 3-base, thereby reducing complexity in molecular testing. Applicable in testing for infectious diseases and chronic diseases including cancers

Overview of 3base™

Basic Technical functionality: Moving from 4base to 3base™



Technology - 3Base™

- 3Base™ improves subtype similarity and reduces variation, allowing easier PCR design
- e.g, a 10 digit number comprised of the numbers 1,2,3 and 4 has **1,048,576 combinations**
- a 10 digit number comprised of the numbers 1,2 and 3 has **59,049 combinations**

e.g. Non-Converted Influenza Sequences		3base™ Converted Influenza Sequences	
Influenza A virus H5N1	TGTGTGTCCA GGGATAATTG	Influenza A virus H5N1	TGTGTGTTTA GGGATAATTG
Influenza A virus H7N3	TGTATATGTA GGGACAATTG	Influenza A virus H7N3	TGTATAATGTA GGGATAATTG
Influenza A virus H5N8	TGTGTTTGTAGAGACAACCTG	Influenza A virus H5N8	TGTGTTTGTAGAGATAATTG
Influenza A virus H5N3	TGTATATGTA GGGACAATTG	Influenza A virus H5N3	TGTATAATGTA GGGATAATTG
Influenza A virus H5N2	TGTGTTTGTAGAGATAATTG	Influenza A virus H5N2	TGTGTTTGTAGAGATAATTG
Influenza A virus H6N6	TGCATTTGTAGGGACAATTG	Influenza A virus H6N6	TGTATTTGTAGGGATAATTG
Influenza A virus H2N9	TCCACTTGTAGGGATAATTG	Influenza A virus H2N9	TTTATTTGTAGGGATAATTG
Influenza A virus H6N5	TGCGTTTGTCCAGAGATAATTG	Influenza A virus H6N5	TGTGTTTGTAGAGATAATTG
Consensus	TSYRYDTSYMRGAYAAATG 768 Possible combinations 55% Homology	Consensus	TKTRTDTKTWGRGATAATTG 24 Possible combinations 80% Homology

- Sufficient information is retained for genotyping equivalent to native (4Base) genomic assays
- No loss of clinical specificity is observed by this base conversion
- e.g. HPV clinical trials showed superior performance vs. Digene HC2 assay in reducing false positives
- 3Base™ delivers greater Sensitivity and Specificity

Technology - 3Base™

A transformational MDx technology enabling customers to identify a wider array of patient infections

- Genetic Signatures' 3Base™ platform is a proprietary molecular technique which changes naturally occurring DNA and RNA sequences to reduce sequence variation between subtypes
- Patent-protected chemical transformation of DNA and RNA sequences to reduce genetic code complexity
- Process can enhance detection of multiplexed assays where multiple targets are detected in the one tube
- Achieved by allowing a simpler design of molecular assays for the simultaneous detection of multiple targets

Targeting Critical Health

- Gastroenteritis is a major widespread clinical problem (16.8 million cases per annum in Australia alone) resulting in 250,000 visits to hospital emergency departments, 15,000 hospitalisations and 80 deaths)
- Genetic Signatures' gastroenteritis testing offers faster and more reliable diagnosis for better treatment
- Viral Respiratory Infections **kill 3.9 million people per year - one of the top five causes of mortality worldwide**
- Genetic Signatures' product pipeline includes tests for Bacterial Respiratory Infections, MRSA (Golden Staph), meningitis, TB and STI's

Genetic Signatures

Transforming Global Molecular Diagnostics



EasyScreen[™] Testing Kits

- GSS' suite of *EasyScreen*[™] products are used by major hospitals in Australia for detection of infectious diseases – 55,000 tests were sold and used in FY15
- Products work with existing customer systems to deliver a wider array of highly specific results in 4-5 hours that would have traditionally taken 4-5 days
- *EasyScreen*[™] technology works on equipment found in any diagnostic laboratory
- Enteric Pathogen Detection Kit detects up to 22 gastroenteritis pathogens, including viral, bacterial and protozoan agents
- Respiratory Virus Detection Kit detects up to 15 of the most common respiratory viral infections

Case Study:

St Vincent's Hospital Evaluation Study

- *EasyScreen*TM vs. Traditional Methods

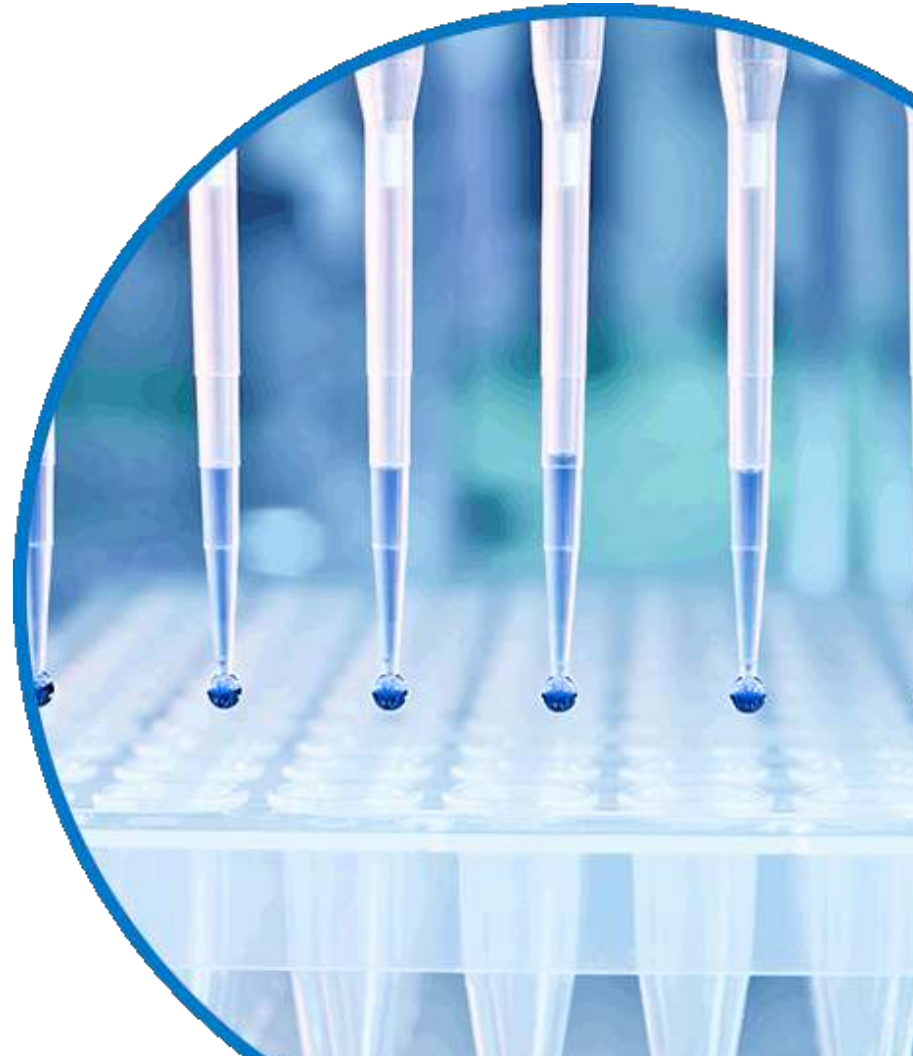
METHODS:

- Primary focus of study was to assess the clinical utility of *EasyScreen*TM in detecting infectious agents in 221 patient samples as compared to traditional methods of culture, microscopy and antibody based tests
- Identified 44 infections that existing testing would have missed**
- Missed infections within the hospital environment can have substantial downstream consequences such as the closing down of wards (e.g. **Norovirus group II**)

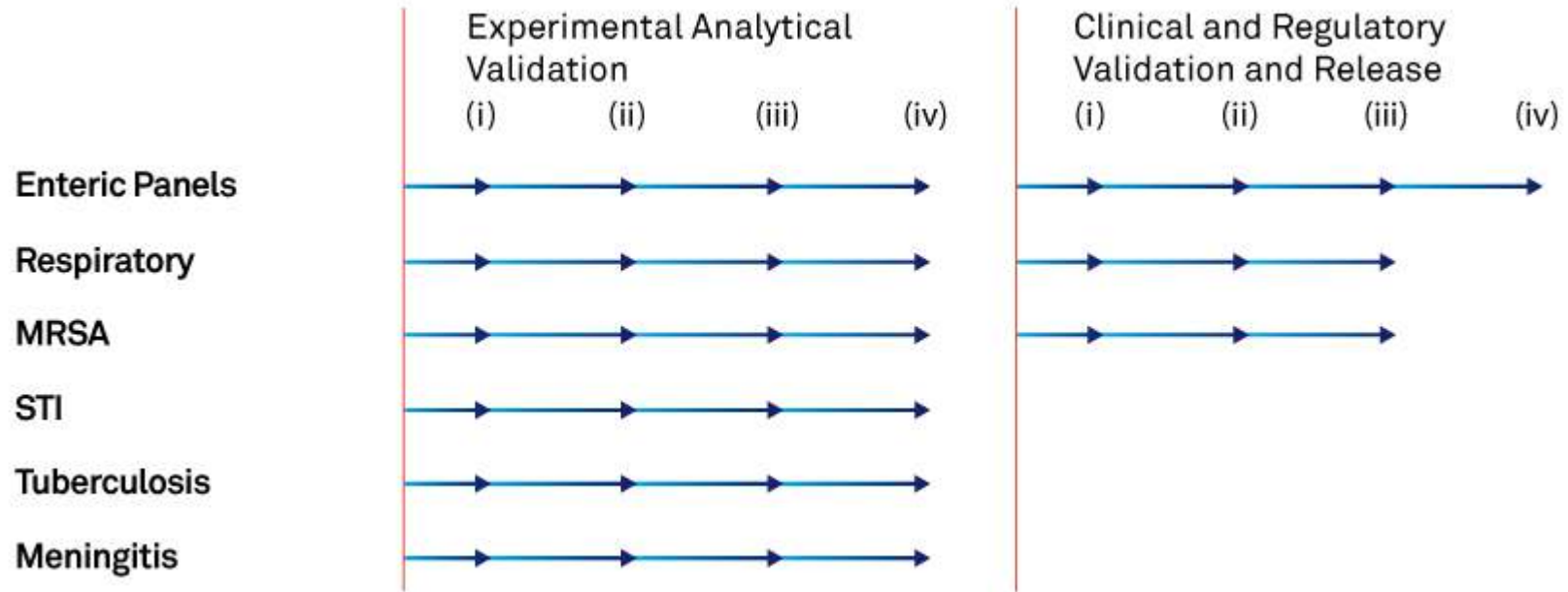
Pathogen	Conventional Methods*	<i>EasyScreen</i> TM
Campylobacter	7	9
Salmonella	8	9
Shigella	5	6
C. Difficile	3	7
Yersinia	-	1
Cryptosporidium	-	1
Giardia	9	12
Dientamoeba fragalis	4	20
Blastocystis hominis	16	21
Entamoeba histolytica	1	1
Norovirus group 2	-	7
Adenovirus	-	1
Adenovirus 40/41	-	1
Sapovirus	-	1
Total	53	97

“I find that the fast turnaround time and the number of targets tested in the *EasyScreen*[™] assays allow me to more rapidly identify highly infectious agents, potentially stopping the spread to other healthy individuals and thereby saving the health system money.”

- Dr Damien Stark



EasyScreen™ Product Development Pathway



Each product goes through extensive development and beta testing and adheres to rigorous quality management systems & regulatory approach.

- ISO9001 and ISO13485 certified
- Already approved by Australian and European regulators

Competitive Advantage

- GSS is unique in supplying products that screen over 20 pathogens, including RNA and DNA viruses, in a probe based real-time format
- Uses latest technology compatible with existing equipment (open platform)
- Ease of use and automation
- Rapid time to result (<5hrs)
- High Volume laboratories accommodated
- Separate endogenous extraction and inhibition controls
- Viral, bacterial and protozoan coverage
- Cost effective kits supply
- Ongoing global support



Global Growth Strategy



2015 Highlights

Financial Growth

- Completed oversubscribed Initial Public Offering (IPO) to raise \$7.5 million and list on the Australian Securities Exchange (ASX)
- Achieved greater than \$1 million in annual sales revenue for the first time in the history of the Company
- Diagnostic kit sales revenue increase of 65% on prior year
- Australian hospitals and laboratories performed GSS' *EasyScreen*[™] tests 55,000 times in FY15
- First molecular diagnostic kits sales to a major national commercial pathology provider.
- First molecular diagnostic kit sales into Europe achieved

2015 Financial Results

	30 June 2015	30 June 2014	% Increase (decrease)
	\$	\$	
Revenue from continuing operations	1,043,269	684,277	52.5%
Net loss from ordinary activities after tax attributable to shareholders	(2,659,120)	(1,728,487)	(53.8)%
Net loss for the period attributable to shareholders	(2,659,120)	(1,728,487)	(53.8)%
Losses per share (cents per share)	(5.2)	(12.1)	57.0%
Net tangible assets (cents per share)	10.8	6.0	80.0%

FY15 Results Overview

- A number of significant non-recurring costs were paid in FY2015 and will not have any further impact on cash flow, including \$515,000 related to the Company's IPO and \$165,000 for capital equipment required to increase product development throughput in the R&D laboratory



2015 Operational Highlights

Global Market Reach Expansion

- US subsidiary, Genetic Signatures US Ltd incorporated and its US team expanded
- Established first European sales channel partnerships with distributors for the regions of Italy and Israel

Product Range Expansion

- Moved into new state of the art premises, allowing for increased product development
- Completed first domestic customer site installation of *EasyScreen*[™] Respiratory Virus Detection Kit for beta-testing
- First sales of *EasyScreen*[™] Respiratory Virus Detection Kit

Commercialisation Progress - Australia

- Currently in market with major hospital and pathology group customers
- Testing for 22 causes of gastroenteritis
- Testing for 15 causes of viral respiratory disease
- Next new product in beta testing with customer
- Dr Tony Radford joins Board of Directors

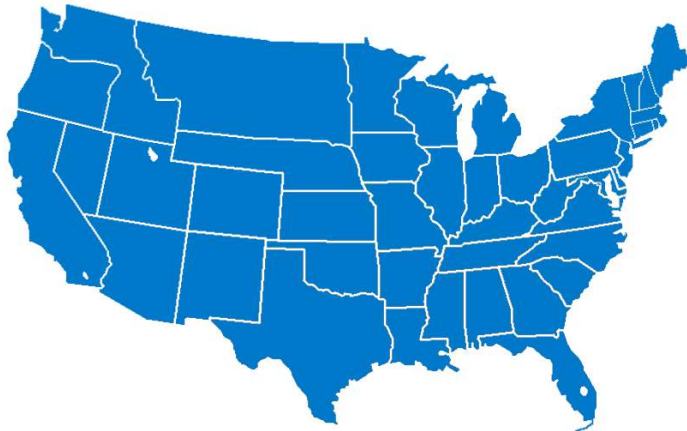
Commercialisation Progress - Europe

- Established operations in 2013
- Signed Italian distributor and testing with large pathology laboratories, recurrent revenues commencing
- Signed Israeli distributor agreement
- Increased European sales channel partnership network by signing distribution agreements with partners for the regions of Poland and Ireland
- In discussions with distributors in other jurisdictions



Commercialisation Progress - United States

- Established operations in 2014 with appointment of key personnel
- In FY15 GSS achieved first regulatory step towards full product suite commercialisation in the US with receipt of a United States Food and Drug Administration (FDA) listing for a clinical sample concentrator. The FDA listing means that the Company can legally sell its *EasyScreen*[™] Sample Processing Kit in the US
- Appointment of Pat Noland, to head up Commercial Operations in September
- Anticipate entering market in FY15



Summary

- *EasyScreen*[™] Respiratory & Enteric Pathogen Detection Kits provide **faster & more accurate screening** for viral, bacterial and protozoan pathogens – **tests are processed in hours instead of days**, with fewer false positives and negatives
- The 3Base[™] platform and products are protected by a **strong patent portfolio** - broad patent protecting the 3Base[™] technology platform until 2031
- Products already available in Australia with GSS having launched into global markets worth **US\$1.11 billion** in 2012 growing to **US\$1.77 billion in 2017**
- **Established operations in key global markets** of Europe and the US over the past year
- **Experienced management team and board** with track record in global molecular diagnostics industry



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