



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.

The presentation is proprietary to Genetic Signatures and may not be disclosed to any third party or used for any other purpose without the prior written consent of the Company.

This document does not constitute an offer, solicitation or recommendation in relation to the subscription, purchase or sale of securities in any jurisdiction and does not and will not form part of any securities subscription, purchase or sale contract.





THE GSS IPO E Why IPO? Who to Use? Once in... Take 2 THE GSS IPO EXPERIENCE:



INVESTMENT HIGHLIGHTS

- Genetic Signatures is a molecular diagnostics (MDx) company operating in the global IVD (in vitro diagnostics) industry. Primary focus on supplying major hospitals and pathology laboratories in testing for infectious diseases.
- or personal Products already available in Australia with GSS set to launch into large global markets worth **US\$1.11 billion** in 2012 growing to **US\$1.77 billion** in 2017
 - Proprietary technology driving product development for large customers in multiple markets
 - Experienced management team and board with track record in global molecular diagnostics industry





Capital Structure	
ASX Code	GSS
Shares on Issue	72.9m
Market Capitalisation	\$32.8m
Share Price (at market close 17 July, 2015)	\$0.45

(II)	Directors & Chief Executive	
	Nick Samaras	Non-Executive Chairman
	John Melki	Director & CEO
	Mike Aicher	Executive Director - US
	Phillip Isaacs	Non-Executive Director
	Pat Noland	Non-Executive Director
	Robert Birrell	Director & CFO
5		



TECHNOLOGY – 3BASE™

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

- GSS' 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



Case Study: Major Hospital, Sydney, Australia: Pilot Study 2013 – *EasyScreen*™ vs Traditional

METHODS:

Primary focus of this study
was to assess the clinical
utility of *EasyScreen*™ in
detecting infectious agents in
279 patient samples as
compared to their existing
methods

Results generated in approximately 4 hours, which compares to up to 4 days when using traditional microbiology techniques

Additional 79 pathogens detected (last column) that would not have been detected using traditional microbiology testing methods

Pathogen detected	EasyScreen™	Sensitivity %	Specificity %	Additional pathogens	
Viruses (Noro, Rota, Adeno, Astro)	69	100	97.1%	25	
C. difficile	58	84.8	99.4	9	
Campylobacter spp.	48	100	100	0	
Salmonella spp.	42	97.7	100	1	
Shigella spp.	11	100	99.5	0	
L. monocytogenes	1	NA	NA	1	
Y. enterocolitica	3	100	100	2	
D. fragilis	10	100	100	10	
B. hominis	17	100	100	16	
G. intestinalis	12	92.3	100	7	
Cryptosporidium spp.	3	100	100	3	
Entamoeba complex	5	NA	NA	5	
Totals	279			79	

Table 2: Major Hospital Pilot Study 2013 – EasyScreen™ versus Traditional Methods





Case Study: St Vincent's Hospital (SydPath), Sydney Australia: Evaluation Study 2014 – *EasyScreen*™ vs

Traditional Methods

METHODS:

Primary focus of study was to assess the clinical utility of *EasyScreen*™ in detecting infectious agents in 221 patient samples as compared to traditional methods

- Identified <u>44</u> 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*	EasyScreen™		
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		



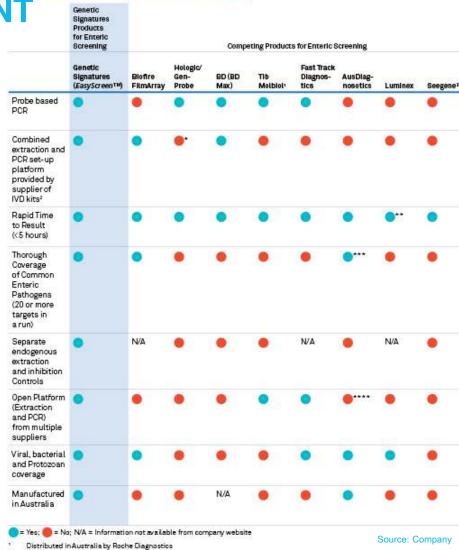
COMPETITOR ENVIRONMENT Genetic Signatures

Table 1 opposite explores the global competitive environment in which GSS operates for infectious disease products, focusing on enteric (otherwise known as or gastroenteritis) screening.

Table 1 incorporates the major criteria utilised by global customers in assessing products for gastroenteritis screening.

GSS is unique in supplying products that

- Screen over 20 pathogens, including RNA and DNA viruses, whilst
- Using the latest technology and being compatible with existing equipment (open platform)
- ease of use and automation



On a single integrated platform Seeplex End point PCR range

Does not include pre-treatment time

This test is not compatible with Hologic automated instrumentation

*** Requires the use of multiple assays with redundant targets under current menu **** May be compatible with some 3rd party 394-well PCR instrumentation



EASYSCREEN™ PRODUCT DEVELOPMENT PATHWAY

	Experimental & Analytical Validation			Clinical & Regulatory Validation & Release				
	(i)	(ii)	(iii)	(iv)	(i)	(ii)	(iii)	(iv)
Enteric Kits	\rightarrow	\rightarrow	\rightarrow		\Rightarrow	\rightarrow		
Respiratory	\rightarrow	\Rightarrow	\rightarrow	\Rightarrow		\rightarrow		
MRSA	\rightarrow	\rightarrow	\Rightarrow	\Rightarrow	\Rightarrow			
STI	\rightarrow	\rightarrow	\rightarrow	\rightarrow				
Tuberculosis	\rightarrow	\Rightarrow	\Rightarrow	\rightarrow				
Meningitis	\rightarrow	\rightarrow	\rightarrow	\rightarrow				

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

or personal





Australia

- Currently in market with major hospital and pathology group customers
- Testing for 22 causes of gastroenteritis

- Testing for 22 causes of gastroenterius
 Testing for 15 causes of viral respiratory disease
 Next new product in beta testing with customer
 Western Europe
 Established operations in 2013
 Signed Italian distributor and testing with large parecurrent revenues commencing
 Signed Israeli distributor agreement
 In discussions with distributors in other jurisdictio Signed Italian distributor and testing with large pathology laboratories,

 - In discussions with distributors in other jurisdictions

United States

- Established operations in 2014 with appointment of key personnel
- Anticipate entering market in 2015



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
- Products already available in Australia with GSS set to launch 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 Western Europe and the US over the past year, including appointment of experienced management team
 - Experienced management team and board with track record in global molecular diagnostics industry
 - The 3Base[™] platform and products are protected by a strong patent portfolio broad patent protecting the 3Base[™] technology platform until 2024, and a more specific patent protecting the use of 3Base[™] in each of the Company's products until 2031



MILESTONES - SNAPSHOT

Achieved – CY 2015

- IPO
- Continued sales growth of enteric product line
- Initial Revenues generated from second product line Respiratory

To lookout for – balance of CY 2015

- Continued sales growth
- Additional EU distributorships
- Release of third product line MRSA ("Golden Staph")
- Initial US Revenues targeted around end CY2015





For personal use only

CONTACT:

John Melki

Chief Executive Officer

john@geneticsignatures.com

Rob Birrell

Chief Financial Officer

rob@geneticsignatures.com

T: +61 2 9870 7580

www.geneticsignatures.com