BCAL diagnostics **BCAL DIAGNOSTICS LIMITED ASX: BDX** 6 MARCH 2024

CORPORATE PRESENTATION

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BCAL BREASTEST DRIVING A NEW PARADIGM IN BREAST CANCER DIAGNOSTICS

only



Founded in 2010, BCAL Diagnostics is an Australian diagnostic company focused on revolutionising early detection and screening for breast cancer for women worldwide



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H1 HIGHLIGHTS

Laboratory &

Processing

NATA accreditation

application well underway

Launch of SENSIBLE study

confirming accuracy and

consistency per final

protocol

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Scientific progress

Breakthrough results from clinical study with Precion

Completion of pre-analytical blood processing optimisation studies



Corporate developments

Formation of Clinical Advisory Board

Key management and clinical appointments to support commercialisation

Partnerships

Sample collection partnerships with KIMS Institute and Indo-American Hospital, India

Further partnerships with advocacy groups





SIGNIFICANT SCIENTIFIC PROGRESS

PRECION STUDY

The analysis undertaken achieved an impressive sensitivity of 90% and a specificity of 85.5% in internal validation studies involving 656 samples.

The samples were collected and processed from Australian breast cancer patients and healthy control subjects according to BCAL protocol.

Demonstrates robustness of the BCAL breast cancer plasma lipid signature and the transferability of the test between laboratories and instrument types.

BLOOD PROCESSING OPTIMISATION

Completed all studies to determine the tolerable limits and instructions for collection, transportation, processing, and storage of patients' samples before pathology testing. This ensures results obtained are **accurate and consistent.**

Collected over 2,500 samples from biopsyconfirmed breast cancer patients and healthy controls from Europe, Australia, and the USA, with 9% of Australian samples positive for breast cancer

FINAL STAGE AHEAD OF COMMERCIAL LAUNCH

LAB ACCREDITATION

National Association of Testing Authorities (NATA) under the ISO 15189 requirements and National Pathology Accreditation Advisory Council (NPAAC) certifications are required

Completion of implementation of the Quality Management System required

Completed NATA advisory visit in December 2023

SENSIBLE STUDY

BCAL has initiated a further internallymanaged clinical study, the SENSIBLE study, using samples from Australian patients collected and processed using the commercial protocol

This study will continue into Q3 FY24 but an early analysis of the data being collected indicates continued concordance with the data collected in the US study previously reported, and earlier, locally-acquired data.



CORPORATE DEVELOPMENTS

Strategic changes to expedite commercialisation pathway

Formation of Clinical Advisory Board to assist the company in clinical utility decisions

Made up of leading breast cancer clinicians and researchers

Simon Preston appointed as Director of Clinical Research

Bringing 15 years research experiences within the academic and diagnostic industries

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CEO John Hurrell transitions to position of Consultant and Executive Director

Shane Ryan transitions to CEO effective 1st April 2024

Originally appointed in September 2023 as COO



BREASTESTTM

A blood test that detects breast cancer that will be ready for use in Australian women in late 2024



14 years of clinical development with research originating in Sydney

Developed in clinical studies using cutting edge lipidomics in more than 2500 patient samples

Launch in Australia in 2024 and planning for USA market entry in 2025

Initial intended use alongside current breast cancer diagnostic tools including mammography

BCAL is led by a highly experienced commercial and scientific management team ready for commercial launch

BREASTEST[™] will be processed in BCAL's laboratory in Sydney

For women who are currently participating in screening programs and available to those who cannot or choose not to.



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We are passionate about changing the way we think about detecting breast cancer, diagnosing it as early as possible, and ultimately improving outcomes for breast cancer patients.

INVESTMENT HIGHLIGHTS

A BLOOD TEST TO DETECT BREAST CANCER

- **Revenue generation** followingAustralian market launch in late 2024
- A complementary solution to
- traditional diagnostic technologies overcoming many of the existing challenges of the current screening program
- Set to transform the global landscape
 of breast cancer diagnosis, monitoring, and surveillance with proprietary lipid detection technology that can be also applied to other cancers
- **4.** Set to drive improved participation rates in breast cancer screening
 - **programs** with intended focus on those who currently do not or cannot participate

5. Leverages AI-driven technology in BCAL-owned laboratory and operated Biobank, distinguishing from competitors by collecting its own samples with strong clinical protocols and governance in place

2.1 million mammograms took place in
 2023 although 1.5 million people who were eligible did not get screened (*BreastScreen Australia*)

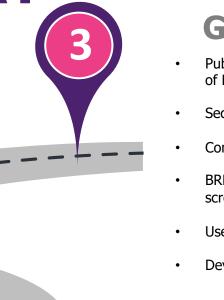


COMMERCIAL PATHWAY

A 3-year roadmap to saving lives underpinned by a reproducible lipidomic platform and a proprietary biobank of growing data

AUSTRALIAN LAUNCH '24

- Launch of BREASTEST™ in Australia late 2024
- First revenues immediately following launch
- Building relationships with Key Opinion Leaders (KOLs) and breast surgeons to penetrate existing screening programs
- Develop and implement strategic partnerships to expedite mass market penetration
- Finalise laboratory accreditation for commercial samples





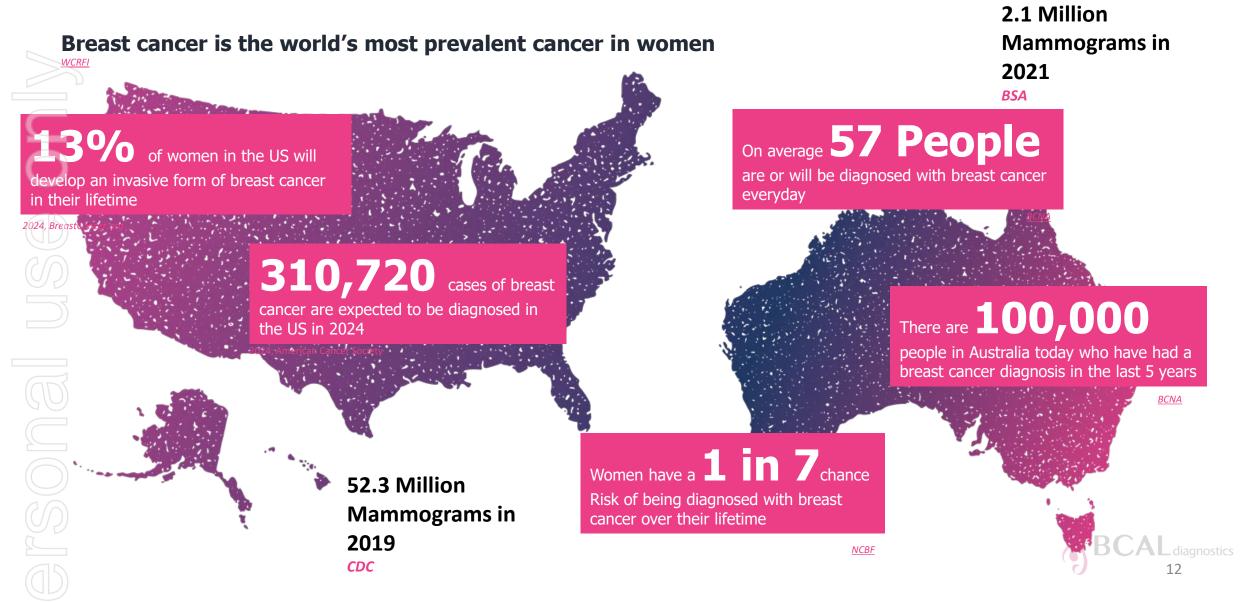
- Publish in scientific literature the clinical and utility performance of BREASTEST to underpin other market launches
- Secure government funding or BREASTEST[™] in Australia
- Commercially launch in the US
- BREASTEST[™] incorporated into new standard of care of screening and diagnosis
- Used for high-risk patients, remission treatment and monitoring
- Develop products on BCAL's platform for other cancers

SCALE NATIONALLY

- Nationwide patient access to BREASTEST[™] across Australia
- Define and initiate market entry strategy for US commercial launch
- Expand patient sample processing capacity of Sydney lab by scaling laboratory
- Expand the lipidomic platform
- Expand Lipidomic platform into other cancer streams
- Grow the revenue with increased market access



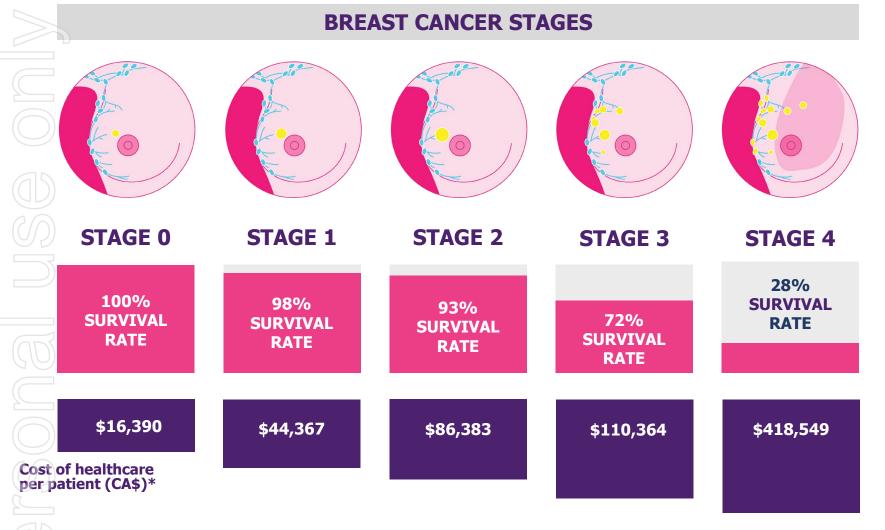
A MAJOR COMMERCIAL OPPORTUNITY



BCAL is focused on improving the outcomes for women with breast cancer

*Article: Capturing the True Cost of Breast Cancer Treatment: Molecular Subtype and Stage-Specific per-Case Activity –Based Costing, 2023

EARLY DIAGNOSIS SAVES LIVES AND COSTS TO THE HEALTHCARE SYSTEM



LIMITATIONS OF MAMMOGRAPHY:

Guidelines limit access to those over 40yo

Most effective above
 50yo due to lower breast
 density and fatty tissue

 Limited remote access
 Prone to self-exclusion (painful, uncomfortable, cultural reasons)

• Significantly less effective for patients with higher risk such as younger people and those with higher breast density

CURRENT BREAST CANCER SCREENING

Breast density is the least addressed common risk factor for breast cancer accounting for up to 50% of cases.

There's an unmet need to detect cancer in women with dense breasts

- 40–50% of US women have dense breast tissue (CDC)
- Incidence is 4-6x more likely in women with dense breasts (<u>CDC</u>)
- BCAL has a two-pillared market entry strategy that focuses on the initial launch of BREASTEST[™] as an adjunct to existing screening methods

2.1 MILLION MAMMOGRAM SCREENINGS

occurred in Australia in 2023, well short of the expected 4million

42%

of eligible women do not get screened

(BreastScreen Australia)

44%

women think waiting two years for a mammogram is too long

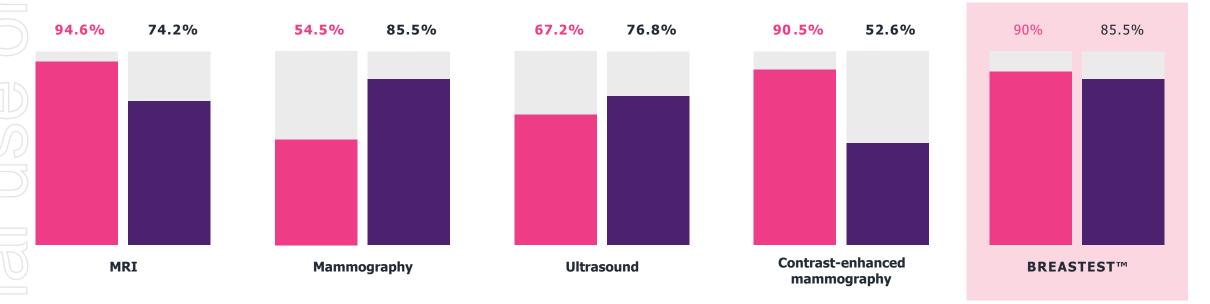
(BMC Cancer)

28%

Of all new cancer cases in women will be breast cancer

(BCNA)

BREASTESTTM INTEGRATED EXISTING STANDARDS OF CARE



A cancer detection test requires a balance of sensitivity (ability to detect true positive samples) and specificity (ability to detect true negative samples).

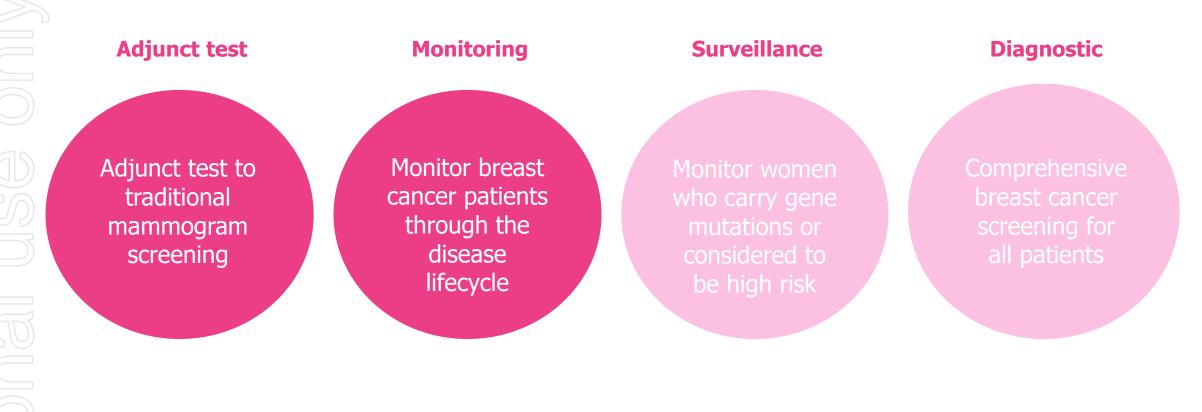
SENSITIVITYSPECIFICITY

Internal validation of BREASTEST[™] shows strong potential performance with a balance between sensitivity and specificity.



PATH TO MARKET

Strategy defined to provide a sequenced path to market





DETECTING LIPID SIGNATURES FROM BREAST CANCERS



Lipids are fats and a source of energy for cell growth.



Deregulation of lipid metabolism is a very early step in a normal cell becoming a cancerous cell.



Deregulated lipids can spill over into the blood's plasma which is indicative of cancer growth.



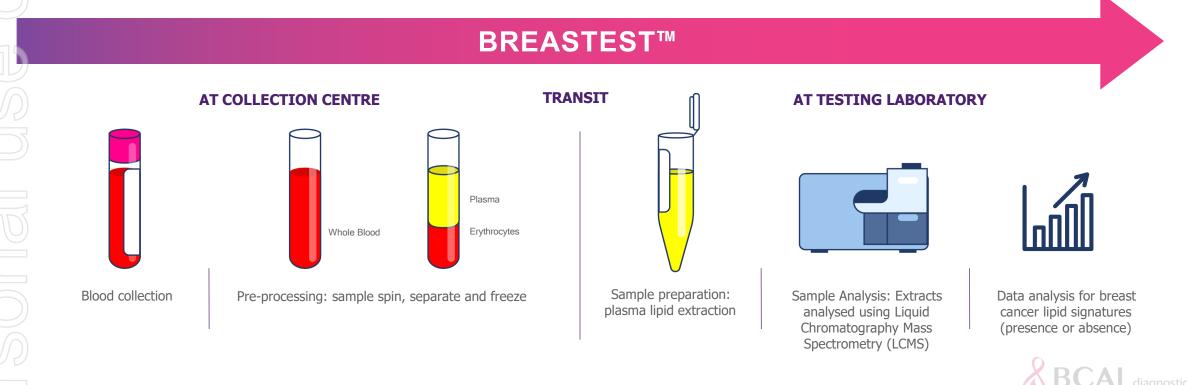
BREASTEST[™] can detect levels of lipids in the blood plasma and subsequently diagnose cancer earlier than conventional methods.

BCAL has developed a lipidomic platform for breast and other cancers

LIPID BLOOD TEST WITH AUTOMATED ANALYSIS

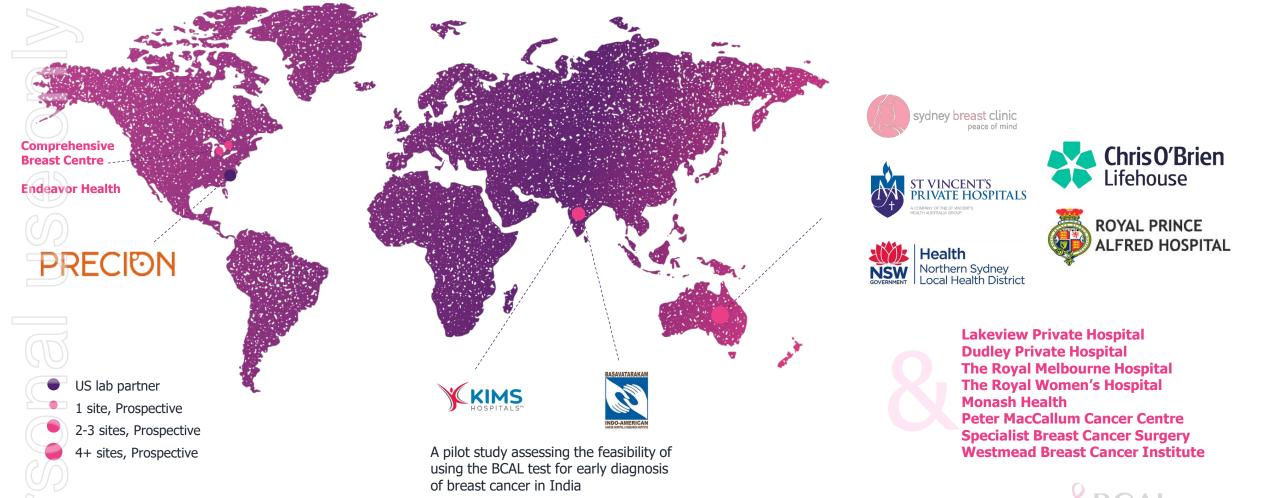
During Phase 1 of the commercial launch, BCAL will manage the pathology logistics to ensure quality control and ongoing sample storage to further develop its AI data analytics platform.

Ongoing consideration of pathology partnership is to support the financial burden of pathology from mass testing.



19

BCAL IS WORKING WITH CLINICIANS FROM LEADING CENTERS AROUND THE GLOBE



20

INTERNATIONAL INTELLECTUAL PROPERTY (IP) PROTECTION

Granted as a method for detecting cancer Pending as a diagnostic signature

In Progress as a diagnostic signature

Clinical Advisory Board

Eminent and influential Breast Clinicians form a National Key Opinion Leader & Clinical Excellence Forum to enhance trust, provide advice and inform the BCAL program



Dr David Speakman

Former CMO at Peter MacCallum Cancer Centre. A specialist breast and melanoma surgeon. Recipient of the Tom Reeve Award for outstanding contribution to cancer care, and Clinical Director at Breast Screen Victoria.



Prof Bruce Mann

Professor of Surgery, The University of Melbourne. Director of Breast Tumour Stream the Victorian Comprehensive Cancer Centre. Director of Reearch, Breast Cancer Trials.



Dr Corinne Ooi

Head of Breast Service at Monash Health, VMO at Monash BreastScreen, and a Foundation Member of BreastSurgANZ, a specialist society for surgeons treating breast cancer. Member of the Australasian Society of Breast Diseases, ANZ Breast Cancer Trials Group, and General Surgeons Australia.



A/Prof. James French

Experienced Oncoplastic Surgeon who operates in both public and private settings. He is the Head of Breast Surgery at the Westmead Breast Cancer Institute and chair of two MDM meetings.

James is also part of the team leading the development of oncoplastic breast surgery.



Prof. Elisabeth Elder

Specialist Breast Surgeon at the Westmead Breast Cancer Institute and privately through Specialist Services at Lakeview Private Hospital. Elisabeth is a surgeon at the forefront of the developing field of oncoplastic breast surgery and former President of the Australian Society for Breast Disease.



Clinical Advisory Board



A/Prof. Cindy Mak

Sydney qualified and trained Breast Surgeon, and chair of the Oncoplastic Sub-Committee of BreastSurgANZ. Director of Breast Services at Chris O'Brien Lifehouse (Camperdown).

She also operates at the Mater Hospital (North Sydney) and Royal Prince Alfred Hospital.



Dr Samriti Sood

Specialist Oncoplastic Breast Surgeon who offers expertise in the management of women with all breast-related conditions.

Operates at The Mater, Royal North Shore and Northern Beaches.



A/Prof. Gillian Lamoury

Radiation Oncologist with a sub-specialty in breast cancer.

Based at The Mater and Royal North Shore.



Dr Sally Baron-Hay

Medical Oncologist with over 20 years of clinical experience and senior lecturer at the University of Sydney.

She has clinical appointments at Royal North Shore Hospital in Sydney, North Shore Private Hospital, The Mater Hospital and Genesis Care.



Dr Mary Richard OAM

Leading Sydney based Radiologist with subspecialty in Breast cancer.

Involved in consulting with numerous breast screening and diagnostic training programs across South East Asia, in particular Singapore, Indonesia, Malaysia, Thailand, Japan and Mongolia.



COMMERCIAL LAUNCH ON TRACK FOR LATE 2024

Commercial strategy to advance relationships with existing partners to launch BREASTEST[™] in specialised clinics with first revenues to be delivered immediately following launch.

		APR '24	MAY '24	JUN '24	JUL '24	AUG '24	SEP '24	ОСТ '24	NOV '24	DEC '24	JAN '25
_	BREASTEST [™] launch										
	First Revenues										
S	Community awareness initiatives including GPs, advocacy groups and government										
	BCAL research published in high profile journal										
	BCAL presenting research at BCT annual scientific meeting										
	Clinical validation study										
	Indian clinical study commences & completes										
	BCAL signs agreements to collect patient samples with two healthcare providers in USA										
	Execute commercial agreements with radiology providers										
	North Ryde laboratory receives NATA accreditation										
	Continued signing of strategic partners to complete clinical validation study										
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24

BOARD OF DIRECTORS



Jayne Shaw EXECUTIVE CHAIR

Successful businesswoman, entrepreneur, and co-founder. Previously co-founder and owner of the Sydney Breast Clinic.



Hon Ron Phillips AO NON-EXECUTIVE DIRECTOR

Health policy expert, previously Minister for Health in NSW Parliament and cofounder and owner of the Sydney Breast Clinic.



Jonathan Trollip INDEPENDENT NON-EXECUTIVE DIRECTOR

International businessman and lawyer. Many years of experience as NED of large ASX-listed companies.



David Darling INDEPENDENT NON-EXECUTIVE DIRECTOR

Over 30 years of executive leadership, growing and commercialising biotechnology and life sciences companies



Mark Burrows AO INDEPENDENT NON-EXECUTIVE DIRECTOR

An advocate for early diagnosis of breast cancer and other cancers. International banking expert and has held positions of Chairman and NED of major ASX-listed corporations.

EXECUTIVE TEAM - AUSTRALIA



Dr. John Hurrell, PhD CHIEF EXECUTIVE OFFICER

More than 35 years of experience in life sciences & healthcare. Has developed & successfully commercialised multiple products & services as well as managing start-up/earlystage companies.



Dr. Amani Batarseh, PhD CHIEF SCIENTIFIC OFFICER

PhD from Georgetown University, Washington, DC. Completed postdoctoral studies at Harvard, McGill and Wollongong Universities. Expert in molecular biology lipidomics and mass spectometry.



Guy Robertson CHIEF FINANCIAL OFFICER & COMPANY SECRETARY

A Finance Director/Chief Financial Officer for several companies within the Jardine Matheson Group over a period of 16 years. Provides CFO and company secretary consulting services to many large corporations and SMEs.



Simon Preston, PhD DIRECTOR, CLINICAL RESEARCH

15 years of Research and Development experience across academic and industry roles. Extensive clinical and preclinical experience in both pharmaceutical and diagnostics.



Shane Ryan, MBA CHIEF OPERATING OFFICER

Former Global SVP of Strategy & Innovation - Patient Access at GenesisCare, boasting 20+ years in global oncology specialising in breast cancer. His contributions include precision medicine tests and clinical trials for high-risk breast cancer. Previously, he held executive roles at Peter MacCallum Cancer Centre for a decade.



Kathy Koskiris BSc. MBA. DIRECTOR, CLINICAL LABORATORY SERVICES

More than 20 years of experience in building and managing clinical laboratories under TGA and US CLIA regulations. Managed CLIA certification for multiple new products, CLEP certification and NATA Accreditation with ISO15189 & NPAAC standards.

25

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www.bcaldiagnostics.com



Thank you

Jayne Shaw

Executive Chair jshaw@bcaldiagnostics.com

John Hurrell

Chief Executive Officer jhurrell@bcaldiagnostics.com

