Advancing health research through collaboration

BIOGRID AUSTRALIA

ANNUAL REPORT 2011-12

BIOGRID FACTS

Number of Members *at 30 June 2012*

26 representing 42 institutions

33

Current Institution Ethics Approvals *at 30 June 2012*

77

Journal Publications to date

EIGHTY ONE

Approved Active Research Projects *during 2011-12*

CONFERENCES

FIVE **Conference presentations** *during 2011-12*

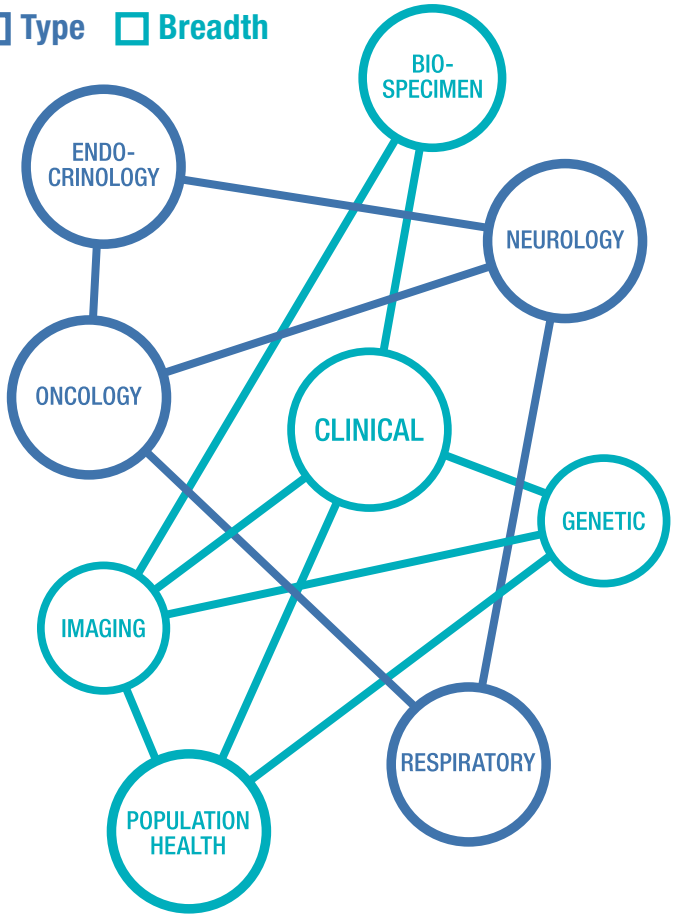
24 **Conference posters** *during 2011-12*

NATIONAL = Adelaide, Brisbane, Canberra, Melbourne and Perth

INTERNATIONAL = Singapore, Malaysia and United States.

DATA CONNECTED

☐ Type ☐ Breadth



Front cover lower left corner: A/Prof Clare Scott image courtesy of The Walter and Eliza Hall Institute.

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Australian Government
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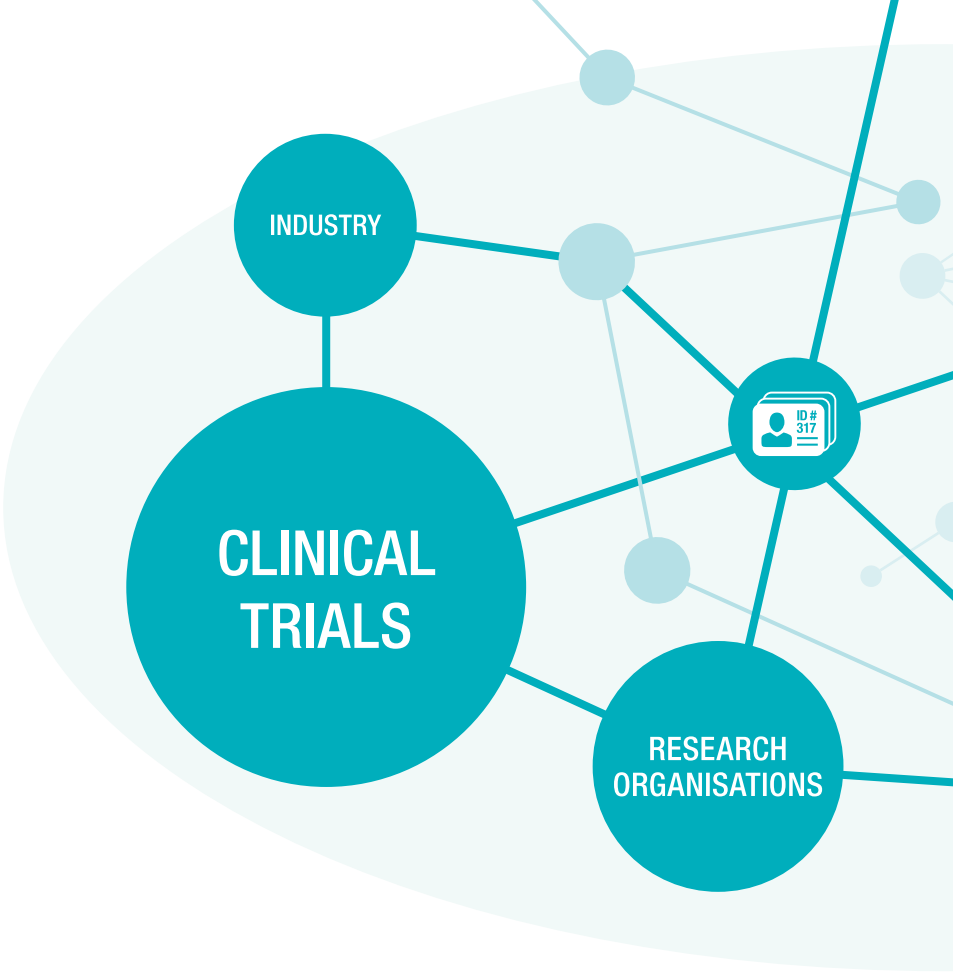
ABOUT BIOGRID



BIOGRID AUSTRALIA OPERATES A FEDERATED DATA SHARING PLATFORM FOR COLLABORATIVE TRANSLATIONAL HEALTH AND MEDICAL RESEARCH PROVIDING A SECURE INFRASTRUCTURE THAT ADVANCES HEALTH RESEARCH BY LINKING PRIVACY-PROTECTED AND ETHICALLY APPROVED DATA AMONG A WIDE NETWORK OF HEALTH COLLABORATORS.

BioGrid links real-time de-identified health data across institutions, jurisdictions and diseases to assist researchers and clinicians improve their research and clinical outcomes. The web-based infrastructure provides ethical access while protecting both privacy and intellectual property.

BioGrid was established in 2003 with the foresight of the Bio21 Cluster collaboration as the Molecular Medicine Informatics Model. State and Federal Governments have enabled the establishment then expansion of the infrastructure over three funding phases. The most recent funding from the Victorian State Government Department of Innovation, Industry and Regional Development (now known as Department of Business and Innovation) leveraged the infrastructure to develop the Australian Cancer Grid.

In 2009 BioGrid became an independent not-for-profit company and is now owned by 26 collaborators representing 42 hospitals and research organisations across five states and territories. This legal and ethical arrangement with participating collaborators allows BioGrid to connect data through a common platform where data governance and access is managed by a highly skilled team.

Data governance, security and ethics are at the core of BioGrid's federated data sharing platform that securely links patient level clinical, biospecimen, genetic and imaging datasets across multiple sites and diseases for the purpose of medical research. BioGrid's infrastructure and data management strategies address the increasing need by authorised researchers to dynamically extract and analyse data from multiple sources whilst protecting patient privacy.

As health research and planning becomes more complex, the need for collaboration significantly increases. BioGrid's web-based infrastructure has the capacity to uniquely identify and ethically integrate real-time data collected about a patient across multiple institutions. BioGrid has the capability to link data with other datasets, produce tailored reports for auditing and reporting and provide statistical analysis tools to conduct more advanced research analysis.

In the health sector, BioGrid is a trusted independent virtual real-time data repository. Government investment in BioGrid has facilitated a combination of technology, collaboration and ethics approval processes for data sharing that exist nowhere else in the world.

For more information on how BioGrid works, what data is linked to BioGrid and how to access data, go to www.biogrid.org.au.

OUR VISION

Integrating health research data to facilitate improved health outcomes.

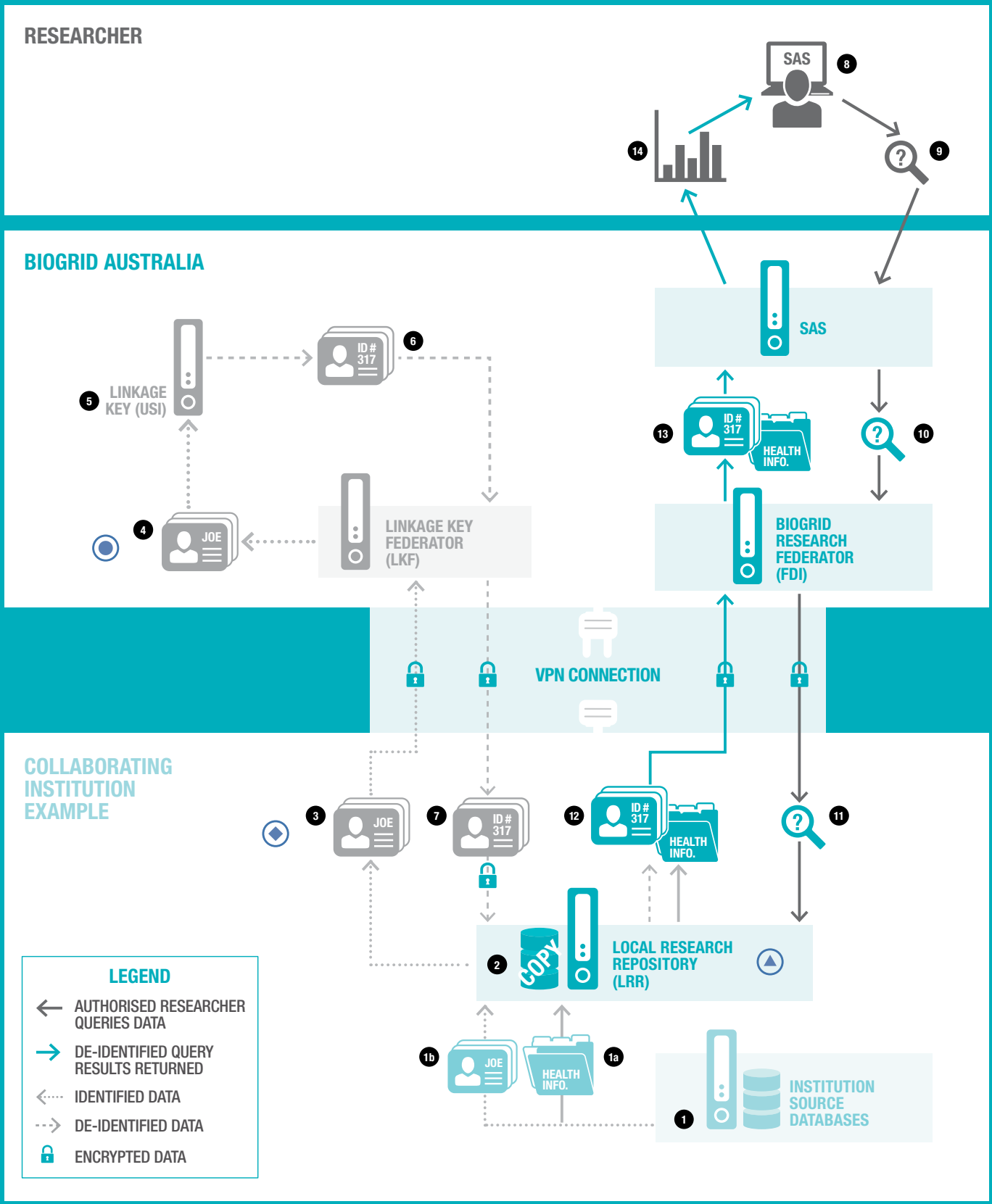
OUR MISSION

Providing a technology platform for the ethical integration of data from individuals, health services, industry, research organisations and governments for research to reduce the burden of disease and improve human health.

> *Amongst the biggest problems that investigators face are data collection, data storage, data analysis, statistical analysis of data. A second order of problems is concerned with ethics and privacy and the amazing thing about BioGrid is that it addresses all those things.*

Sir Gustav Nossal, *Professor Emeritus, Department of Pathology, The University of Melbourne*

HOW BIOGRID WORKS



How BioGrid Works Reference Key

1. Patient information is recorded in one or more data sources (i.e. databases, spreadsheets), which are stored on a collaborating institution's computer network. This information comprises clinical health information data and identifiers.

1a. Clinical health information data are the collection of facts and opinions about an individual's health and wellbeing. Treatment details are an example of clinical health information data.

1b. Identifiers are the data items, which identify the individual who is described within a patient record. A patient's name is an example of an identifier.

2. The patient information is copied into replica data sources, which are stored on the collaborating institution's Local Research Repository (LRR), on a nightly basis or frequency agreed by the collaborating institution.

3. A limited set of identifiers from each new patient record are sent from the replica data sources to BioGrid Australia's Linkage Key Federator (LKF) via a secure encrypted Virtual Private Network (VPN) connection.

4. The Linkage Key Federator (LKF) forwards the identifiers to BioGrid Australia's Linkage Key server. This server hosts the Unique Subject Identifier (USI) database.

5. The identifiers are compared with the USI database's records to establish whether data about the patient already exists within a BioGrid-linked data source.

   If a match is found for a patient's data, the patient has previously been allocated a USI. If no match is found for a patient's data, the patient's set of identifiers and a new USI are written to the USI database.

6. The USIs for the matching and non-matching patients are sent back to the LKF.

7. The USIs are sent back to the LRR via a secure encrypted VPN connection and stored with their associated clinical health information data.

8. Once authorised access via the BioGrid Australia Data Access Application System has been provided to the researcher, they can commence querying the de-identified data they have approval to access.

9. The researcher submits a data query to BioGrid Australia's statistical analysis (SAS) computer via the Internet.

10. The SAS computer forwards the query to the FDI.

11. The FDI requests the specified data from each of the relevant LRRs via a secure encrypted VPN connection.

12. The clinical health information data and USIs from applicable patient records are sent to the FDI via a secure encrypted VPN connection. These data are combined into a temporary table. The table is removed from the FDI upon completion of the query.

13. The SAS computer reads and processes data from the temporary table.

14. The SAS computer presents the results of the query to the researcher.

BioGrid provides alternative matching methodology referred to as exact matching using a cryptographic hashing function when individual identifiers cannot be brought together in one place for comparison.

- Highly secure hash generating software is installed at collaborating institution. The hashing algorithm is run at collaborating institution's site on the replica data sources. A unique hash value is created for each set of identifying patient data. No identifying information ever leaves the source site.
- Unique hash value from each new patient record is sent from the replica data source to BioGrid Australia's Linkage Key Federator (LKF) via a secure encrypted Virtual Private Network (VPN) connection. No identifying information ever leaves the source site.
- The LKF synchronises its matches with the BioGrid Australia's Linkage Key server. This server hosts the Unique Subject Identifier (USI) database.

CHAIRMAN'S REPORT

IN THE MAY 2012 STATE BUDGET, THE VICTORIAN GOVERNMENT COMMITTED $59.6 MILLION OVER THE NEXT FOUR YEARS THROUGH THE VICTORIAN CANCER AGENCY (VCA) TO SUPPORT CANCER RESEARCH LEADING TO IMPROVED CANCER TREATMENT IN VICTORIA.

Included in the funding was the establishment of an integrated cancer research platform, an initiative which BioGrid has been working towards over the past two years.

BioGrid welcomes this funding commitment and continues to work with the Victorian Cancer Agency, the Victorian Cancer Biobank and the Victorian Cancer Registry as well as the state government to advance the concept of an integrated research platform for cancer. I was pleased to receive a letter from the office of the Minister for Health in July 2012 stating that detailed planning for the new integrated platform would occur over the next few months and that the VCA would liaise with BioGrid regarding contributing to this development.

The platform will ensure the consolidation of data and biospecimen collections under one roof to better support the research community in its study of cancers in a bid to develop effective treatments for all Victorians.

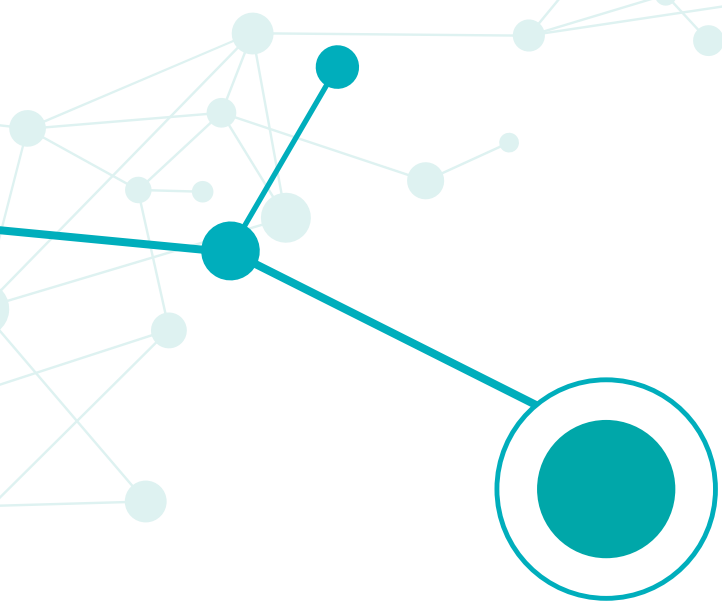
The establishment of an integrated cancer research platform leverages the substantial work that BioGrid has been undertaking since it was founded in 2003. Since then, the organisation has played a significant role in facilitating research into cancer treatments by linking patient data in a privacy protected and ethically approved manner, across multiple treatment sites. Throughout the past year, BioGrid has undertaken regular road shows to promote its various services and programs to existing and new members, reaching out to health professionals, researchers and medical students across the state in both metropolitan and regional Victoria.

"BioGrid is a valuable resource for regional oncology services to collect data, compare outcomes and for translational research and BioGrid has helped to develop an oncology research programme in regional Victoria."

Dr Mahesh Iddawela, *Consultant Medical Oncologist, Goulburn Valley Health*

A major highlight of the year has been the successful use of BioGrid enabled data in securing ongoing Federal funding for the National Bowel Cancer Screening Program. Data available through BioGrid was used to demonstrate the impact of the program as researchers were able to analyse information from over 1,200 bowel cancer patients from 19 sites across Australia to demonstrate the importance of regular screening particularly in the 50 to 70 year old age group.

During the year there has been a significant increase in collaborative activity in endocrinology, with industry supporting improved data collection for both diabetes and pituitary disease. This activity was further strengthened early 2012 when we welcomed Baker IDI Heart and Diabetes Institute as a new member to the BioGrid collaboration. The Baker IDI has a strong clinical research profile and is looking forward to collaborating with other BioGrid members that collect data and have similar clinical interests.



The Baker IDI Heart and Diabetes Institute have a strong clinical research profile. BioGrid has provided a unique opportunity to collect data and collaborate with other centres' with similar clinical interests, particularly in the area of diabetes management. It will enable detailed prospective data collection on a large scale that will inform clinicians and shape clinical practice into the future.

A/Prof Neale Cohen, *General Manager Diabetes Services, Baker IDI Heart and Diabetes Institute*

Industry partnerships are vital to the success of BioGrid and its work. This is exemplified through relationships with companies such as Roche Products (see page 12) with whom BioGrid is working on a prospective study into clinicians' treatment decisions in metastatic colorectal cancer. Using BioGrid technology, the project is providing insight into how clinicians choose from the multiple potential treatment options for patients with advanced colorectal cancer.

I would like to take this opportunity to acknowledge and thank Bob Atwill, BioGrid's Interim Chief Executive Officer to December 2011, for the strategic contribution that he made to the company during his two years with BioGrid. In addition I would like to thank the many people who have contributed to BioGrid's successes, especially the BioGrid staff and all the clinical leaders and researchers for their hard work and perseverance during the year. A special thanks to the executive management team, Maureen Turner (Chief Executive Officer), A/Prof Peter Gibbs (Clinical Director), Dr Suzanne Kosmider (Project Manager), Julie Johns (Data Utilisation Manager) and Naomi Rafael (Technology and Systems Manager), for their dedication and commitment to the ongoing development of BioGrid.

Since 2003 Melbourne Health has continued to act as Secretariat and home for BioGrid. The continued support for BioGrid from the Melbourne Health executive team is greatly valued and appreciated. In addition, I would like to acknowledge the Member Management Committee for their ongoing support and contribution to BioGrid.

Finally, I would like to acknowledge the commitment and dedication of my fellow Directors, Rob Merriel and Julian Clark, both of whom have worked tirelessly setting and achieving fiscal and strategic goals for BioGrid.

The next 12 months offer a number of opportunities and challenges for BioGrid. Provided the integrated research platforms are adequately resourced through the VCA, BioGrid will be able to move forward and align with government research initiatives.

Our key objective is to work with the Victorian government and research community to maximise the current business model to address future strategic fit with the establishment of an integrated translational research platform for the cancer community in Victoria.

Professor Bryan Williams
Chairman, BioGrid Australia

BIOGRID AND VICTORIAN CANCER BIOBANK IN MAJOR TISSUE AND DATA LINK

THE POTENTIAL POWER OF AN INTEGRATED TECHNOLOGY PLATFORM FOR CANCER RESEARCH IN VICTORIA BECAME CLEAR THIS YEAR WITH THE ANNOUNCEMENT THAT BIOGRID AUSTRALIA AND THE VICTORIAN CANCER BIOBANK HAVE JOINED FORCES TO IMPROVE BOWEL CANCER MANAGEMENT.

This linkage partnership means that, for the first time in Australia, researchers are able to access secure ethically approved detailed data associated with tissue and blood samples.

Bowel cancer research is the first to benefit from this collaboration and was chosen because Australia has one of the highest rates of bowel cancer in the world. Around 14,225 Australians are told they have bowel cancer every year but it is one of the most curable types of cancer if detected early, however, fewer than 40% of bowel cancers are detected early.

Led by principal investigator Dr Jeanne Tie, up to 13 sites are involved in the project. These include clinicians from Royal Melbourne, Western, Austin and Box Hill Hospitals who are examining whether circulating tumour DNA (ctDNA) is a reliable blood biomarker for the presence of colorectal cancer.

"Interpreting the clinical usefulness of this biomarker relies on correlating ctDNA levels with the histopathology of the tumour, the treatment given to the patient and imaging results used to monitor effectiveness of treatment. With the link now in place, researchers are able to access secure, ethically approved data provided through BioGrid Australia to learn more about disease recurrence and survival. This type of approach was not available before in Victoria, and it seemed logical to join forces for better cancer research results."

Dr Anne Thompson, *CEO, Victoria Cancer Biobank*

The initial four projects aim to address the following questions:

- **Resectable colorectal liver metastases:** Does the persistence of tumour derived DNA in peripheral blood following surgical removal of colorectal tumour and associated liver metastases predict the subsequent recurrence of the cancer?
- **Stage II colon cancer:** Is the persistence of tumour derived DNA in peripheral blood following complete resection of the primary tumour a sensitive and specific marker of subsequent cancer recurrence?
- **Metastatic (stage IV) colorectal cancer:** Are early changes in the level of ctDNA a sensitive and specific marker of treatment response or resistance?
- **Locally advanced rectal cancer following preoperative chemo-radiation (CRT):** Does the eradication of ctDNA in peripheral blood following completion of pre-operative CRT predict a complete pathological response in locally advanced rectal cancer?

Suitable participants are currently being recruited for the study. Up to 900 blood samples over four years will be processed by Victorian Cancer Biobank staff across the four Victorian sites within three hours of collection. The plasma samples will be stored for three to four months before being shipped in batches to the research laboratory for ctDNA analysis.

This new data linkage service between BioGrid and the Biobank is available to all researchers.

BIOGRID PLAYS MAJOR ROLE IN EXPANSION OF NATIONAL BOWEL CANCER SCREENING PROGRAM

BIOGRID ENABLED DATA HAS PLAYED A MAJOR ROLE IN EXTENDING THE NATIONAL BOWEL CANCER SCREENING PROGRAM AND HIGHLIGHTING THE VALUE OF THE PROGRAM IN PROTECTING AND DETECTING BOWEL CANCER EARLY.

Using research released in 2011[1], clinicians and cancer researchers mounted a successful campaign to extend the Australian National Bowel Cancer Screening Program to 60 and 70 year olds, by demonstrating the potential savings of early bowel cancer diagnosis.

The study by Victorian researchers supported by BioGrid Australia combined Australian screening data with treatment costs and survival rates, providing new evidence of the program's economic and social benefits. The researchers determined the cost of treating any one patient with bowel cancer at about $55,000 a patient.

The research showed that annual bowel cancer treatment costs were likely to increase four-fold to $1 billion over 10 years by 2011. Due to the cost of expensive new therapies treating stage 3 cancers tripled from $25,000 in 1999 to $75,000 and for stage 4, the cost has significantly escalated tenfold from $6,000 to $61,000.

Their efforts succeeded with the Australian Government's decision to allocate an extra $49.7 million to extend bowel cancer screening to Australians turning 60 from next year, 70-year-olds from 2015 then incrementally shifting to two-yearly screening of all Australians aged 50 to 74.

More recent Victorian research has shown how the screening program is making a major impact on patient survival. The analysis, drawn from six Victorian hospitals, revealed an increased number of early stage cancers diagnosed via the bowel screening programs (43% versus 19%) and a reduced number of patients with advanced cancer (4% versus 18%).

Principal investigator A/Prof Peter Gibbs and other Victorian clinicians, using diagnosis and survival information for 103 patients, all of whom had no symptoms of cancer, diagnosed as the result of a positive stool screening test on the national program.

The patients attended six hospitals in Melbourne: Royal Melbourne, Royal Melbourne Private, Western Hospital, Western Private, Box Hill and Epworth Eastern. These patients were diagnosed between May 2006 and 2012 and their results were compared to 793 patients of the same age presenting with symptoms over the same timeframe.

The research confirms the long-held view that patients with a bowel cancer detected through a screening test, long before any symptoms have appeared, have a much improved outcome, with a projected five year survival of 95% compared to 73% for patients of the same age who were diagnosed with symptoms.

"Fully implemented, the National Bowel Cancer Screening Program could save 30 lives a week. This analysis adds to the current weight of evidence that early detection is key to higher survival rates. It also strengthens the case for encouraging maximum numbers of eligible people to participate in the screening program." [2]

Professor Ian Olver, *CEO, Cancer Council Australia*

[1] Tran B, et al. A preliminary analysis of the cost-effectiveness of the National Bowel Cancer Screening Program – Demonstrating the potential value of comprehensive real world data. *Intern Med J* Sep 2011

[2] Media release 11 July 2012. Cancer Council Australia. Bowel cancer screening saving lives

CHIEF EXECUTIVE OFFICER'S REPORT

THE PAST YEAR HAS BEEN A BUSY AND CHALLENGING TIME FOR BIOGRID PROVIDING DATA MANAGEMENT SERVICES TO THE HEALTH RESEARCH SECTOR.

What stands out is the ongoing strides that BioGrid is making in its goal to build and maintain a robust proven infrastructure that is able to support an integrated translational research platform for Victoria.

Data governance, security and ethics are at the core of BioGrid's federated data sharing platform that securely links patient level data across multiple sites and diseases. In the health sector, BioGrid is a trusted independent virtual real-time data repository. BioGrid's infrastructure and data management strategies address the increasing need by researchers to dynamically extract and analyse data from multiple sources whilst protecting patient privacy.

There is no doubt that Victoria is already a world leader in cancer research. The establishment of an integrated research cancer platform, announced in the May 2012 State Budget, will drive this leadership still further and we look forward to working closely with the cancer community, the Victorian Cancer Agency and the state government to make this vision a reality over the next 12 months.

This year BioGrid has provided specialist services to several Victorian Cancer Agency funded projects in areas of prostate cancer, bowel cancer and the Cancer 2015 project. This work in furthering cancer research in Victoria is being conducted in conjunction with the Victorian Cancer BioBank.

BioGrid is well underway with its plans to develop a network of linked data to include chronic and acute disease, such as endocrinology, cardiology and neurology. Ongoing development in these disease areas is implemented when appropriate funding is made available. For instance, during the past year, an industry donation provided the financial support to further develop the BioGrid Diabetes Database to enable clinicians to collect data on insulin pump usage by patients.

This information that is now being collected by five Victorian hospital diabetes clinics and will soon be collected in clinics in Adelaide and Brisbane hospitals will provide valuable data to assist clinicians in patient management and research.

"We are looking forward to joining BioGrid. We hope to utilise the web based patient record to standardise data collection and to be able to extract data for quality control within our own unit and potentially for Diabetes centres across the State. The staff at BioGrid have been exceptionally helpful in trying to establish BioGrid at the Princess Alexandra. We are currently waiting on ethics approval."

A/Prof Anthony Russell, *Director Diabetes and Endocrinology, Princess Alexandra Hospital, Brisbane, Queensland*

Developing relationships with industry is vital not only to provide a revenue stream that is critical to support and expand data capture and research, but also to create additional interest and engagement in BioGrid nationally and internationally. This is already evidenced in partnerships with Roche Products (see page 12) and Novartis, with whom BioGrid has been working to create a National Pituitary Database. Negotiations with a number of global pharmaceutical companies in cancer and other therapeutic areas are underway.

"BioGrid Australia has worked closely with Novartis to create the National Pituitary Database, which involves leading endocrinologists in Australia linking their site-based registries across the country. Their experience in this area and their innovative solutions have been instrumental in getting this project up and running. This database will go a long way in increasing the awareness of pituitary disease and research in Australia."

Dr Christopher Goon, *Medical Advisor, Novartis Oncology Australia and New Zealand*

A major highlight of 2012 has been progress made with the Australian Institute of Health and Welfare (AIHW) to provide project by project linkage to the National Death Index for researchers using the BioGrid data sharing platform. This new service, to be launched in late 2012, allows BioGrid to obtain Australia wide mortality data for approved research projects. This will reduce the research effort and benefit researchers through leverage of BioGrid's technical expertise of data aggregation across sites and diseases as well as the established research ethics and data governance for linked data.

This year we have focussed on upgrading BioGrid's platform infrastructure to allow the business to support the integrated cancer research platform and multi-site collaborative projects. The upgrades include improved patient matching across sites, automated identity management across all BioGrid systems, improved online access request system that accommodates AIHW requirements and an external data security review and audit resulting in system administration improvements.

BioGrid Australia is well on the way in the development and installation of an oncology minimum dataset collection tool for all tumour streams. This software will be particularly useful for regional sites which often do not have relevant data collection software for oncology. Recognised standards are being used in this dataset.

Looking ahead, the next year will see an expansion in datasets available to researchers through BioGrid. We will be making available a range of new datasets including those from Radiation Oncology Victoria, hospital administration and pharmacy data. This work will include discussions with members on how best to connect these datasets to the integrated translational research platform.

I would like to acknowledge the BioGrid Member Management Committee for their ongoing support and contribution to BioGrid, as well as the Scientific Advisory Committees for their support. Our members play a very important role in promoting the value and usage of the collaborative data sharing platform.

The achievements of the past year would not have been possible without the commitment from each member of the BioGrid team. I would like to take this opportunity to thank all BioGrid staff for their enormous dedication to the company. BioGrid looks forward to continuing to capitalise on the opportunities that the coming year holds and to deliver real progress in facilitating quality health research.

Maureen Turner
Chief Executive Officer, BioGrid Australia

PIONEERING PARTNERSHIP DELIVERS ON TRACC

BIOGRID AUSTRALIA AND ROCHE PRODUCTS ARE WELL ON THEIR WAY IN A PROSPECTIVE STUDY INTO CLINICIANS' TREATMENT DECISIONS FOR METASTATIC COLORECTAL CANCER.

Clinicians from 15 sites across Victoria, Tasmania, New South Wales, Queensland, South Australia and the Australian Capital Territory are collaborating in the Treatment of Recurrent and Advanced Colorectal Cancer study (TRACC) and are expecting to have collected data on 1,000 patients by the end of 2012.

To date more than ten posters have been generated from the almost 800 patients already entered. Several papers are being prepared to submit for publication.

The project, led by principal investigator A/Prof Peter Gibbs and under the direction of a management committee, builds on the already-established data collection and analysis resources of BioGrid Australia.

Roche is supporting TRACC as part of its personalised healthcare strategy that aims to provide medicines and diagnostic tools that facilitate tangible improvements in the health, quality of life and survival of patients.

Using a clinician defined data set; TRACC is enabling data to be collected on all patients with metastatic colorectal cancer (mCRC), including those that do not receive any treatment. Survival outcome is recorded for all patients, and for treated patients details regarding first and second line treatment, response and toxicity, is collected.

Key data, such as performance status, are mandatory fields and co-morbidity data is collected on every patient. When individual research projects are undertaken additional data can be obtained by chart review. Data is de-identified and linked by BioGrid for purposes of analysis and reporting, with BioGrid assisting with statistical analysis.

Of particular interest will be analyses of how patients and treatment practice vary across sites, including across hospitals and states, and between public and private settings. Particular strengths of the TRACC database are its inclusiveness, with data captured on elderly patients, those with a poor performance status and those not receiving treatment; all groups that are not studied in clinical trials.

While no individual site data is provided to Roche, they receive regular aggregated summary data, including overall accrual, adverse events and outcome data. Clinicians are able to use the data for any research projects of interest, with approval from Roche not being required.

Planning for the next version of the database is underway, with further support from Roche. Data will be collected on a further 1,500 patients over the next three years.

"Roche has incorporated insights gained from the TRACC project to inform clinical trial development, allowing to further explore optimal treatment of patients with metastatic colorectal cancer (mCRC).

Roche is the world's largest biotech company with truly differentiated medicines in oncology, virology, inflammatory and autoimmune diseases, metabolism and disease of the central nervous system. Roche values this local collaboration which enhances medical knowledge and improves the quality use of medicines, enabling tangible improvements in the health, quality of life and survival of patients. Partnering with BioGrid allows both clinicians and Roche to gain insight into the real-life treatment of Australian patients with mCRC which will ultimately improve understanding of mCRC care."

Dr Daniel Thurley, *MD Regional Medical Director – Asia Pacific (excl. China), Roche Products Pty Ltd*

CART-WHEEL.ORG CONTINUES TO ROLL

THE CENTRE OF ANALYSIS OF RARE TUMOURS, KNOWN AS CART-WHEEL.ORG, CONTINUES TO EXTEND ITS REACH AMONG PEOPLE WITH RARE TUMOURS.

In 2012, the number of registrations on www.CART-WHEEL.org increased to 330 and the database now boasts over 120 participants who have consented for the use of their clinical information for future research.

The first study funded by the Victorian Cancer Agency evaluating the accuracy of the CART-WHEEL.org database was completed and the results of the analysis were presented at the 2012 Melbourne Health Research Week. Overall the data entered on CART-WHEEL.org by cancer consumers were similar to that of the hospital database with regards to the date of diagnosis, names of diagnosis, site of disease, past medical history, and treatment details. (72–83% consistency rate). This study confirms the reasonable accuracy in cancer consumer reported medical data when using a well designed online questionnaire.

CART-WHEEL data, made possible through BioGrid technology, has recently focussed on a high-grade mucinous ovarian cancer study. This year, three patients, whose tissues samples have already undergone RNA sequencing at the Walter and Eliza Hall Institute of Medical Research, have been recruited. This study looking at the gene molecular profiling of this rare but highly lethal disease will aim to clarify treatment options for this cohort of patients who often tend to be young.

CART-WHEEL.org recently teamed up with a Waldenstrom's macroglobulinemia (WM) community in Australia, WMozzies and an international WM foundation (IWMF) to help better understand the nature of this rare disease by generating data through the CART-WHEEL questionnaire. The consumer advocacy group, WMozzies, has embraced the potential utility of the CART-WHEEL database and is actively encouraging members to submit their information to help with analysis that will track current practice trends in the management of the disease.

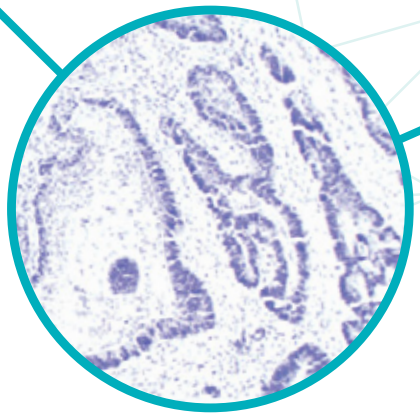
"I heartily support the combined efforts of the BioGrid and CART-WHEEL projects, which allow researchers access to vital information about rare cancers. It is estimated that over 20% of world cancers are 'rare' but there are very few large, effective support groups (and resources) for these diseases. The more people who contribute to CART-WHEEL translates to more data about these diseases and follow-up information assists in analysing various treatment options. I personally encourage anyone with a rare cancer to become a CART-WHEEL participant, so it can become an international depository for vital data, which, en-masse, is our strongest attack on these diseases."

Ms Cynthia Pollock, *Rare Cancer Advocate*

The CART-WHEEL team this year also formed an alliance with Rare Cancers Australia. This alliance approach will be expanded over time in recognition of the important role played by cancer consumer groups in providing education and support for patients and their carers.

Leveraging on the existing functionality of www.CART-WHEEL.org the database will be expanded over the next two years to improve opportunities for research into rare cancers by servicing the needs of participants and their treating clinical teams. This upgrade will serve to facilitate a new project looking at the current use of "off-label" drugs for patients affected by rare cancers, important information for patients as well as medical professionals.

CART-WHEEL.org is supported by the Victorian Cancer Agency and the Picchi Brothers Foundation.



TARGETING TUMOURS IN VICTORIA

BIOGRID IS WORKING WITH THE VICTORIAN CANCER AGENCY (VCA) ON THREE STATE-WIDE PROJECTS AS PART OF ITS FOCUS ON CANCER RESEARCH. THE PROJECTS COVER LUNG AND PROSTATE CANCERS AS WELL AS THE LARGE-SCALE CLINICAL CANCER 2015 STUDY. EACH PROJECT WILL UTILISE EXISTING STATE FUNDED RESEARCH INFRASTRUCTURE SUCH AS BIOGRID AND THE VICTORIAN CANCER BIOBANK.

Prostate cancer

The Prostate CAPTIV Project (Cancer of the Prostate Translation research In Victoria) sees BioGrid playing a pivotal role in data connection and linkages. This project will assist with developing novel therapies for prostate cancer, and to determine molecular and genetic factors that can predict more aggressive prostate cancer. BioGrid's web-based Access Request system will be utilised to process and manage applications to access tissue and data.

"BioGrid plays a vital and pivotal role in the CAPTIV collaboration project (Cancer of the Prostate Translation research In Victoria). The amalgamation of various databases through BioGrid, including those patients managed with active surveillance and surgery, together with data from the Victorian Prostate Cancer registry allows links to be developed to tissue biobanks such as Australian Prostate Cancer Collaboration and Victorian Cancer Biobank. This will allow scientists to have more direct access to data and tissues to assist with vital projects to develop novel therapies for prostate cancer and to determine molecular and genetic factors predictive of more aggressive prostate cancer. BioGrid remains pivotal in this collaborative project to allow closer links to be developed between clinicians and basic scientists to improve outcomes in prostate cancer of all stages."

A/Prof Mark Frydenberg, *Department of Surgery Monash University; Chairman Department of Urology Southern Health; Chairman, Clinical Institute of Specialty Surgery Epworth Healthcare; Chairman, Urologic Oncology Special Advisory Group, Urological Society of Australia and New Zealand; PI CAPTIV Project*

Cancer 2015

The Cancer 2015 Cohort is an epidemiological study where the aim of the research program is to develop, test and implement a new model of cancer diagnosis and treatment.

BioGrid worked with Cancer 2015 to develop the dataset and data dictionary according to defined Australian and International coding standards for use in the development of the Cancer 2015 Cohort database. BioGrid will continue to develop linkages of Cancer 2015 to other registries and databases including the genetic results from the Cohort. These important data will then be available for researchers to use in a de-identified manner for clinical research.

"The Cancer 2015 Cohort is an epidemiological study funded by the Victorian Cancer Agency. As one of the world's largest prospective, longitudinal population-based molecular studies, it will re-classify cancers using molecular pathology data and facilitate more targeted treatments to improve outcomes using a cohort of 10,000 patients. It involves a unique collaboration between researchers, pathologists, treating clinicians and cancer patients using shared molecular information, validated clinical trial methodology and data input from both clinicians and consumers. BioGrid performed an essential role in establishing the data dictionary according to defined, Australian and/or International coding standards for use in the development of the Cancer 2015 Cohort registry or database. These data, involving the linking of clinical and demographic, health economic information about the patients with next-Gen derived genomic information regarding any somatic gene variants identified in the patient's tumour DNA, will allow us to evaluate the effectiveness of targeted therapies either currently available or as new drug clinical trials to improve cancer care, survival and outcomes. BioGrid will continue to collaborate in the development of linkages of Cancer 2015 to other registries and databases and to ultimately provide these data for researchers to utilise in a de-identified manner for key fundamental and clinical research questions to be addressed."

A/Prof David Thomas, *Peter MacCallum Cancer Centre, PI Cancer 2015*

Lung cancer

Currently in its early stages, the lung cancer project involves collection of tissue from biopsy and surgery, collection of clinical and treatment data and the establishment of a lung cancer registry. The Registry is collecting data across several sites in Victoria and in the future will expand the sites for data collection. BioGrid will play an important role in providing the linkage for connecting the various datasets being collected across Victoria. These data will then be available in BioGrid for researchers to utilise for lung cancer research.

SPOTLIGHT ON ENDOCRINOLOGY

IT IS ESTIMATED THAT 280 AUSTRALIANS DEVELOP DIABETES EVERY DAY AND THAT 3.3 MILLION AUSTRALIANS WILL BE LIVING WITH TYPE 2 DIABETES BY 2031. DIABETES IS ONE OF THE TOP 10 CAUSES OF DEATH IN AUSTRALIA AND IS RESPONSIBLE FOR COMPLICATIONS AFFECTING THE FEET, EYES, KIDNEYS AND CARDIOVASCULAR HEALTH.

With a current total annual cost to the Australian economy of at least $6 billion, research into the prevention and cure of diabetes is of great importance.

Against this backdrop, BioGrid has been working during the year on further developing the BioGrid Diabetes Database which has been made possible from an industry donation. The upgraded database enables clinicians to collect data on insulin pump usage by patients and is now being used by five Victorian hospital diabetes clinics and will soon be used in Adelaide and Brisbane hospital clinics.

The database and linkages is already making a huge difference to clinicians and researchers who rely on systemized surveillance for complications and risk factors when looking after people with chronic disease.

"Care of Chronic Diseases such as diabetes requires systematized surveillance for complications and risk factors, close attention to pharmaceutical treatments and regular review of key pathology and clinical parameters. Quality assurance of overall performance in meeting quality care indicators and research into care delivery, outcomes and new treatments are all integral parts of a clinical service. We have found the BioGrid database delivers the ability to undertake all these tasks in a busy hospital clinic situation. The database is used to provide very timely communication to all health providers involved in patient care, to identify patients for clinical research trials, to answer important research questions and to monitor quality parameters on an ongoing basis. The BioGrid Diabetes Database puts us at the cutting edge for Diabetes Service Delivery, Research and Quality."

Prof Peter Colman, *Director, Department of Diabetes and Endocrinology, Royal Melbourne Hospital, Victoria*

The database is being used to identify patients for clinical research trials, to answer important research questions and to monitor quality parameters on an ongoing basis. BioGrid provides the infrastructure capability and expertise to link type 1 diabetes data across sites to enable access to data across the lifespan of individuals with diabetes from diagnosis in childhood to adult care.

"Remarkable resources exist for clinical research in the health system – outstanding intellectual capacity and daily "experiments" on many thousands of patients. Capturing this into a scientific framework is a tremendous opportunity and challenge requiring high quality platforms that clinicians and scientists can access. BioGrid is a vital resource that allows patient information from multiple collaborating institutions to be combined to provide greater power. Having a resource like BioGrid to enable linkage of type 1 diabetes data across the lifespan of individuals with diabetes from diagnosis in childhood to adult care is a tremendous boon to medical care and clinical research. We have had great support from the BioGrid team in linking our diabetes database at St Vincent's Hospital to established databases at the Royal Melbourne and the Royal Children's Hospitals."

Prof Tom Kay, *Director, St Vincent's Institute, Victoria*

This year BioGrid has also worked on the development and linkage of a national Pituitary web-based clinical registry database, through funding from Novartis.

BioGrid is managing the development of the software which will be installed at seven sites across five states and then linked to the BioGrid platform. It is expected that this new clinical tool database will be available in early 2013 making possible a national data collection of importance for patient care and medical research.

"BioGrid have been excellent partners in the development of the Australian Pituitary Disease Database Project. This project commenced at the Royal Melbourne Hospital and the Royal Adelaide Hospital was the second hospital in Australia to be involved. This project has allowed us to produce a searchable and analysable database for 1,000 patients with pituitary disease treated over 20 years at both centres. This is an Australian first and the capacities for audit will allow for improved care, as well as provide a greatly needed infrastructure for clinical research. Recently, with BioGrid's active assistance, funding has been obtained to convert our initial MS-Access based data collection tool to a web based tool that can be used in the clinic to provide ongoing updates on patient progress and the enrolment of new patients. It is expected that this new clinical tool database will be available in early 2013. Given that the database allows for more ready acquisition of data, this will correspond to the inclusion of several other centres in Australia for study and audit of pituitary disease. BioGrid's infrastructure and knowledge have been essential to progress on this project."

A/Prof David Torpy, *Senior Consultant Endocrinologist, Royal Adelaide Hospital, South Australia*

DIRECTORS' REPORT

THE NAMES AND DETAILS OF THE COMPANY'S DIRECTORS IN OFFICE DURING THE 2011-2012 FINANCIAL YEAR AND UNTIL THE DATE OF THIS REPORT ARE AS FOLLOWS:

Professor Bryan Williams *PhD, Hon FRSNZ*
Director and Chairman since 2009

Director, Monash Institute of Medical Research (MIMR) and Director, Centre for Cancer Research, MIMR, 2006–present

Director, Pacific Edge Pty Ltd (2008–present)

Director and Chairman, MEI Pharma Inc. (2006–present)

Director, Cancer Trials Australia Pty Ltd (2009–present)

Member of the Victorian Cancer Agency Consultative Council (2009–2012)

Chairman, Department of Cancer Biology, Lerner Research Institute, The Cleveland Clinic Foundation in Cleveland, USA (1991–2005)

Professor, Department of Genetics, Case Western Reserve University, Cleveland, USA (1993–2005)

Mr Robert Merriel *BA, Grad Dip Psychology, Grad Dip Accounting, CPA*
Director and Company Secretary since 2009

Associate Director, Healthcare Management Advisors, 2011–present

Director, BioComm Services Pty Ltd (2007–2011)

Director, Australian Technology Fund Pty Ltd (2004–2011)

Member, BioGrid Management Committee (2004–2011)

Chairman, BioGrid Management Committee (2005–2009)

Dr Julian Clark *BSc (Hon), PhD, MAICD, FTSE*
Director since 2009

Head of Business Development, The Walter and Eliza Hall Institute of Medical Research

Director, Catalyst Therapeutics Pty Ltd (2012–present)

Director, CSIRO P-Health Advisory Group (2011–present)

Director, Cancer Trials Australia Pty Ltd (2009–present)

Director, BACE Therapeutics Pty Ltd (2009–present)

Chairman/Member, Sansom Institute Advisory Committee, University of South Australia (2006–present)

Director, Julian Clark Consulting Pty Ltd (1999–present)

Chief Executive Officer, Cancer Therapeutics CRC Pty Ltd (2007–2009)

Director, Alchemia Limited (2006–2008)

Director, Genera Biosystems Pty Ltd (2004–2007)

Director, Meditech Research Limited (2004–2006)

Meetings attended

The following outlines meetings held and attended by each of the Directors in 2011–2012.

Director	Board of Directors		Audit & Risk Commitee	
	Held	Attended	Held	Attended
Bryan Williams	7	7		
Robert Merriel	7	5	4	4
Julian Clark	7	7	4	4

The entity is incorporated under the Corporations Act 2001 and is a company limited by guarantee. As such, no shares are issued or held by directors. If the entity is wound up, the constitution states that each member is required to contribute a maximum of $10 each towards meeting any outstanding obligations of the entity. At 30 June 2012 the number of members was 26.

Principal activities

The principal activities of the Company are data sharing that advances health research by linking privacy-protected and ethically approved clinical, imaging and biospecimen data among a wide network of health collaborators. During the year there was no significant change in the nature of those activities.

Company's objectives

The company's objectives are to:

- Facilitate internationally competitive medical research into the causes of ill-health and disease;
- Provide an ethically approved privacy-protected service to connect data sources;
- Invest in technology development to ensure ongoing alignment with leading technology that supports privacy-protected data connection; and
- Be sustainable in order to fulfill the company's vision and mission and to service the needs of its' members.

To achieve these objectives, the company:

- Supported the Victorian Cancer Agency to work towards the establishment of an integrated translational research platform for the cancer community in Victoria;
- Worked with key stakeholders in the health sector to facilitate major research projects in Victoria and Australia;
- Provided ongoing training and support for quality specialist staff committed to providing a technology platform that supports medical research through privacy-protected data connection; and
- Retained a business development focus targeting organisations with the resources to support project work with the company.

Key performance measures

The company measures its own performance through the use of both quantitative and qualitative benchmarks. The benchmarks are used by the directors to assess whether the company's short-term and long-term objectives are being achieved.

	2012		2011	
	Actual	Benchmark	Actual	Benchmark
Total Number of Members	**26**	25	**25**	24
Current Institution Ethics Approvals	**33**	32	**32**	31
Approved Active Research Projects	**81**	84	**80**	79
Journal Publications to Date	**77**	67	**64**	51
% Income from Membership Subscriptions	**12%**	5%	**10%**	4%

Dividends

The Company Constitution forbids the payment or distribution of any profits, income or assets to the members.

Directors remuneration

The directors did not receive remuneration from the Company with the exception of reimbursement of expenses relating to their director role.

Indemnification of officers and auditors

During the year the Company paid a premium in respect of a contract insuring the directors of the Company, the Company secretary and all executive officers of the Company and of any related body corporate against a liability incurred as such a director, secretary or executive officer to the extent permitted by the Corporations Act 2001.

The Company has not otherwise, during or since the year, indemnified or agreed to indemnify an officer or auditor of the Company or of any related body corporate against a liability incurred as such an officer or auditor.

Auditor's Independence Declaration

The lead auditor's independence declaration for the year ended 30 June 2012 has been received and can be found on page 18 of this report.

Signed in accordance with a resolution of the Board of Directors.

On behalf of the Directors

Bryan Williams, Director
Melbourne, 26 November 2012

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BioGrid Australia Limited
31 136 185 647

Auditor's Independence Declaration

I declare that, to the best of my knowledge and belief, during the year ended 30 June 2012 there has been:

(i) no contraventions of the auditor independence requirements as set out in the *Corporations Act 2001* in relation to the audit; and

(ii) no contraventions of any applicable code of professional conduct in relation to the audit.

Saward Dawson Chartered Accountants

Tim Flowers
Partner

Blackburn, Victoria 3130
26 November 2012

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FINANCIAL REPORT

Statement of Comprehensive Income

For the Year Ended 30 June 2012

	Note	2012 $	2011 $
Revenue	2	**2,540,813**	4,040,865
Depreciation		**(525)**	–
Professional fees		**(55,685)**	(49,402)
Consultant expenses		**(1,677,865)**	(1,579,228)
Bank charges		**(417)**	(331)
Matching and in kind contributions	2b	**–**	(2,205,250)
License fees		**(180,523)**	(21,148)
Administrative expenses		**(104,281)**	(92,467)
Other expenses		**(8,967)**	(81,471)
Surplus from ordinary activities		**512,550**	11,568
Other comprehensive income			
Other comprehensive income		**–**	–
Total comprehensive income for the year		**512,550**	11,568

Statement of Financial Position

As at 30 June 2012

	Note	2012 $	2011 $
ASSETS			
CURRENT ASSETS			
Cash and cash equivalents	4	**942,930**	1,111,760
Trade and other receivables	5	**166,066**	574,530
Other assets	7	**–**	12,000
TOTAL CURRENT ASSETS		**1,108,996**	1,698,290
NON-CURRENT ASSETS			
Property, plant and equipment	6	**8,932**	–
TOTAL NON-CURRENT ASSETS		**8,932**	–
TOTAL ASSETS		**1,117,928**	1,698,290
LIABILITIES			
CURRENT LIABILITIES			
Trade and other payables	8	**58,593**	110,236
Income in advance	9	**20,050**	1,061,319
TOTAL CURRENT LIABILITIES		**78,643**	1,171,555
TOTAL LIABILITIES		**78,643**	1,171,555
NET ASSETS		**1,039,285**	526,735
EQUITY			
Reserves	10	**83,000**	–
Retained surpluses		**956,285**	526,735
TOTAL EQUITY		**1,039,285**	526,735

Statement of Changes in Equity

For the Year Ended 30 June 2012

2012	Retained Surpluses $	General Reserves $	Total $
Balance at 1 July 2011	**526,735**	**–**	**526,735**
Surplus for the year	**512,550**	**–**	**512,550**
Transfers from retained earnings to general reserve	**(83,000)**	**83,000**	**–**
Balance at 30 June 2012	**956,285**	**83,000**	**1,039,285**

2011	Retained Surpluses $	General Reserves $	Total $
Balance at 1 July 2010	515,167	–	515,167
Surplus for the year	11,568	–	11,568
Balance at 30 June 2011	526,735	–	526,735

Statement of Cash Flows

For the Year Ended 30 June 2012

	Note	2012 $	2011 $
Receipts from customers		**2,164,323**	1,536,810
Payments to suppliers and employees		**(2,369,762)**	(599,781)
Interest received		**46,066**	8,374
Net cash provided by (used in) operating activities	11	**(159,373)**	945,403
Acquisition of property, plant and equipment		**(9,457)**	–
Net cash used by investing activities		**(9,457)**	–
Net cash increase (decrease) in cash and cash equivalents		**(168,830)**	945,403
Cash and cash equivalents at beginning of year		**1,111,760**	166,357
Cash and cash equivalents at end of financial year	4	**942,930**	1,111,760

Notes to the Financial Statements

For the Year Ended 30 June 2012

Note 1 Accounting policies

1a General information

The directors have prepared the financial reports on the basis that the company is a non-reporting entity because there are no users who are dependent on its general purpose financial reports. These financial reports are therefore special purpose financial reports that have been prepared in order to meet the requirements of the *Corporations Act 2001*.

BioGrid Australia Limited is a company limited by guarantee, incorporated and domiciled in Australia.

1b Basis of preparation

The financial reports have been prepared in accordance with the requirements of the mandatory Australian Accounting Standards applicable to entities reporting under the *Corporations Act 2001* and the significant accounting policies disclosed below, which the directors have determined are appropriate to meet the needs of members.

The financial reports have been prepared on an accruals basis and are based on historical costs unless otherwise stated in notes. The material accounting policies have been adopted in the preparation of this report are as follows:

Note 1 Accounting policies continued

1c Revenue

Revenue from the rendering of services is recognised upon delivery of the service to customers.

Grant revenue is recognised in the statement of comprehensive income when the entity obtains control of the grant and it is probable that the economic benefits gained from the grant will flow to the company and the amount of the grant can be measured reliably.

All revenue is stated net of the amount of goods and services tax (GST).

1d Property, plant and equipment

Plant and equipment
Plant and equipment are measured on the cost basis. Cost includes expenditure that is directly attributable to the asset.

Depreciation
The depreciable amount of all plant and equipment is depreciated on a straight-line basis over the asset's useful life to BioGrid Australia Limited commencing from the time the asset is held ready for use.

1e Cash and cash equivalents

Cash and cash equivalents include cash on hand, deposits held at call with banks, other short-term highly liquid investments with original maturities of three months or less, and bank overdrafts. Bank overdrafts are shown within short-term borrowings in current liabilities in the statement of financial position.

1f Goods and services tax (GST)

Revenues, expenses and assets are recognised net of the amount of GST, except where the amount of GST incurred is not recoverable from the Tax Office. In these circumstances the GST is recognised as part of the cost of acquisition of the asset or as part of an item of the expense. Receivables and payables in the statement of financial position are shown inclusive of GST.

Cash flows are presented in the statement of cash flows on a gross basis, except for the GST component of investing and financing activities, which are disclosed as operating cash flows.

1g Income taxes

No current or deferred income tax assets or liabilities have been raised by the company as it is exempt from income tax under Division 50 of the Income Tax Assessment Act.

1h Comparative figures

When required by Accounting Standards, comparative figures have been adjusted to conform to changes in presentation for the current financial year.

1i Trade and other payables

Trade and other payables represent the liability outstanding at the end of the reporting period for goods and services received by the company during the reporting period which remain unpaid. The balance is recognised as a current liability with the amounts normally paid within 30 days of recognition of the liability.

1j New accounting standards for application in future periods

The AASB has issued new and amended Accounting Standards and Interpretations that have mandatory application dates for future reporting periods. The directors have decided against early adoption of these Standards, but do not expect the adoption of these standards to have any impact on the reported position or performance of the company.

	Note	2012 $	2011 $
Note 2 Revenue			
Operating revenue			
– Government grants	2a	**1,657,585**	1,210,641
– Matching in kind contributions	2b	**–**	2,205,250
– Member subscriptions		**294,355**	189,750
– Interest received		**46,066**	8,374
– Donations		**71,333**	–
– Other income	2c	**471,474**	426,850
Total Revenue		**2,540,813**	4,040,865

2a The 2011 financial year Government grants related to Australian Cancer Grid Grant Income from the State of Victoria, managed by Melbourne Health on behalf of the members.

The 2012 financial year Government grants relates to various grants from the State of Victoria.

2b This represents Members matching in kind non-cash contributions under the Australia Cancer Grid funding agreement. This funding agreement ended on 30 June 2011 and the company is no longer required to recognise matching in kind non-cash contribution.

2c Other income relates to client contracts with BioGrid Australia Limited.

Note 3 Surplus from ordinary activities

Expenses		
Remuneration of auditor		
Auditing or reviewing the financial report	**4,750**	4,750
Other services	**3,400**	1,650
	8,150	6,400

Note 4 Cash and cash equivalents

Cash at bank	**942,930**	1,111,760
	942,930	1,111,760

Note 5 Trade and other receivables

CURRENT		
Trade receivables	**120,536**	536,545
GST receivable	**45,530**	–
Receivable from Melbourne Health	**–**	37,785
	166,066	574,530

Note 6 Property, plant and equipment

Plant and equipment		
At cost	**9,457**	–
Accumulated depreciation	**(525)**	–
Total plant and equipment	**8,932**	–

	Note	2012 $	2011 $

Note 7 Other Assets

CURRENT		
Prepayments	–	12,000
	–	12,000

Note 8 Trade and other payables

CURRENT		
Unsecured liabilities		
Trade payables	–	1,280
GST payable	–	94,749
Accruals	58,593	14,207
	58,593	110,236

Note 9 Income in advance

Government grants	–	1,037,985
Other deferred income	20,050	23,334
	20,050	1,061,319

Note 10 General Reserve

The general reserve records funds set aside as a contingency should the company decide to wind up.

Note 11 Cash flow information

Reconciliation of cash flow from operations with profit after income tax		
Net surplus for the year	512,550	11,568
Cash flows excluded from profit attributable to operating activities		
– Depreciation	525	–
Changes in assets and liabilities		
– (Increase)/decrease in trade and term receivables	453,994	1,074,820
– (Increase)/decrease in other assets	12,000	–
– (Increase)/decrease in income in advance	(1,041,269)	(210,641)
– Increase/(decrease) in trade payables and accruals	(97,173)	69,656
	(159,373)	945,403

Note 12 Company details

The registered office of the company is:

BioGrid Australia Limited
6 North, Main Building, The Royal Melbourne Hospital
300 Grattan St, Parkville 3050
Victoria

Note 13 Members' guarantee

The company is incorporated under the *Corporations Act 2001* and is a company limited by guarantee. If the company is wound up, the constitution states that each member is required to contribute a maximum of $10 each towards meeting any outstandings and obligations of the company. At 30 June 2012 the number of members was 26.

Directors' Declaration

The directors have determined that the company is not a reporting entity and that this special purpose financial report should be prepared in accordance with the accounting policies described in Note 1 to the financial statements.

The directors of the company declare that:

1. The financial report and notes, as set out on pages 19 to 24, are in accordance with the *Corporations Act 2001* and:

   (a) comply with Accounting Standards; and

   (b) give a true and fair view of the company's financial position as at 30 June 2012 and of its performance for the year ended on that date in accordance with the accounting policies described in Note 1 to the financial report.

2. In the directors' opinion, there are reasonable grounds to believe that the company will be able to pay its debts as and when they become due and payable.

This declaration is made in accordance with a resolution of the Board of Directors.

Bryan Williams
Director

Robert Merriel
Director

26 November 2012

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BioGrid Australia Limited

31 136 185 647

Independent Audit Report to the members of BioGrid Australia Limited

Report on the Financial Report

We have audited the accompanying financial report, being a special purpose financial report, of BioGrid Australia Limited (the company), which comprises the statement of financial position as at 30 June 2012, and the statement of comprehensive income, statement of changes in equity and statement of cash flows for the year then ended, a summary of significant accounting policies, other explanatory information and the directors' declaration.

The Responsibility of the Directors' for the Financial Report

The directors of the company are responsible for the preparation and fair presentation of the financial report and have determined that the accounting policies described in Note 1 to the financial report, are appropriate to meet the requirements of the *Corporations Act 2001* and are appropriate to meet the needs of the members. The directors' responsibility also includes internal control as the directors determine is necessary to enable the preparation of a financial report that is free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on the financial report based on our audit. We have conducted our audit in accordance with Australian Auditing Standards. Those standards require that we comply with relevant ethical requirements relating to audit engagements and plan and perform the audit to obtain reasonable assurance whether the financial report is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial report. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial report, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the company's preparation of the financial report that gives a true and fair view in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by the directors, as well as evaluating the overall presentation of the financial report.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified audit opinion.

Independence

In conducting our audit, we have complied with the independence requirements of the *Corporations Act 2001*. We confirm that the independence declaration required by the *Corporations Act 2001*, provided to the directors of BioGrid Australia Limited would be in the same terms if provided to the directors as at the date of this auditor's report.

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PRINCIPALS: Bruce Saward FCA Cliff Dawson FCA
Peter Shields CA Tim Flowers CA
ASSOCIATE: Cathy Braun CA
Liability limited by a scheme approved under Professional Services Legislation

CHARTERED ACCOUNTANTS

Russell Bedford
A member of Russell Bedford International

SAWARD DAWSON
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BioGrid Australia Limited
31 136 185 647

Independent Audit Report to the members of BioGrid Australia Limited

Auditor's Opinion

In our opinion, the financial report of BioGrid Australia Limited is in accordance with the *Corporations Act 2001*, including:

a. giving a true and fair view of the company's financial position as at 30 June 2012 and of its performance for the year ended on that date; and

b. complying with Australian Accounting Standards to the extent described in Note 1 and the Corporations Regulations 2001.

Basis of accounting

Without modifying our opinion, we draw attention to Note 1 to the financial report, which describes the basis of accounting. The financial report is prepared to assist BioGrid Australia Limited to meet the requirements of the *Corporations Act 2001*. As a result, the financial report may not be suitable for another purpose.

Saward Dawson Chartered Accountants

Tim Flowers
Partner

Blackburn, Victoria 3130
26 November 2012

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BIOGRID TEAM

From left to right: Maureen Turner, Naomi Rafael, Trung Huynh, Agnes Yii, Sue Bradbury, Dr Susie Bae, Leon Heffer, Dr Suzanne Kosmider, A/Prof Peter Gibbs, Meera Bala, Julie Johns, Jaymin Patel, Liang Wang, Knight Wang, Michael Harold (absent).

The BioGrid team is comprised of highly skilled personnel who have specialist skills in:

- data ethics, linkage, security and privacy,
- real-time federated data integration,
- unique record matching across data platform,
- web-based data access management, and
- data interrogation, analysis and reporting.

Members and stakeholders are supported in their research activity by BioGrid staff with specialist IT, data and business skills. Specialist IT skills include system, database and portal administration as well as software engineering, all of which support the maintenance and development of the federated data platform. Specialist data management skills cover ethics management, dataset creation, data analysis and disease specific clinician expertise, supporting data connectivity, interrogation, analysis and reporting. Business and administration expertise manage the BioGrid office including contractual arrangements for clients, both research investigators and industry, as well as vendors and suppliers.

BIOGRID MEMBERS

ACT Health
Canberra Hospital

Adelaide Health Service (Central Northern Adelaide Health Service)
Royal Adelaide Hospital
The Queen Elizabeth Hospital
Lyell McEwin Hospital

Alfred Health
The Alfred
Caulfield Hospital
Sandringham Hospital

Austin Health
Austin Hospital
Heidelberg Repatriation Hospital

Baker IDI Heart and Diabetes Institute

Ballarat Health Services
Ballarat Base Hospital
Queen Elizabeth Centre

Bendigo Health
Bendigo Hospital

Eastern Health
Angliss Hospital
Box Hill Hospital
Healesville Hospital
Maroondah Hospital

Goulburn Valley Health
Goulburn Valley Hospital

Latrobe Regional Hospital

Barwon Health
Geelong Hospital

Melbourne Health
The Royal Melbourne Hospital

Northern Health
The Northern Hospital

Peninsula Health
Frankston Hospital
Rosebud Hospital

Peter MacCallum Cancer Centre

Ludwig Institute for Cancer Research

Radiation Oncology Victoria

Southern Health
Monash Medical Centre, Clayton
Monash Medical Centre, Moorabbin
Casey Hospital
Dandenong Hospital

St Vincent's Hospital, Melbourne

Tasmanian Government Department of Health and Human Services
Royal Hobart Hospital
Launceston General Hospital

The Royal Children's Hospital

The Royal Women's Hospital

The University of Melbourne

The University of New South Wales

The Walter and Eliza Hall Institute of Medical Research

Western Health
Western Hospital
Sunshine Hospital
The Williamstown Hospital

BioGrid member names and associated institutions as at 30 June 2012

Acknowledgements

Executive Editor: Maureen Turner
Managing Editor: Meera Bala
Design: Taylor & Grace
Published November 2012

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