



Health
Pathology

Research Activity Report 2018



www.pathology.health.nsw.gov.au/research

for all of
us



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A note to all readers

Research captured in this report was taken from NSW Health Pathology’s Research Activity Register.

If your research is not included in this report, make sure you add your research activity to the register.

Email NSWPATH-research@health.nsw.gov.au to find out how.

welcome



Tracey McCosker
 Chief Executive

Prof Roger Wilson
 Chief Pathologist
 Executive Director of
 Clinical Governance & Quality

We are pleased to share with you our second Research Activity Report, highlighting the data captured by NSW Health Pathology’s Research Activity Register for 2018.

Every day, our NSW Health Pathology colleagues take part in innovative research to improve public health and safety and advance our understanding of human health.

We want to make the most of this expertise – to be forefront of new tests, new technologies and scientific discoveries. We also want to celebrate our research efforts, shape our future priorities and enhance collaboration with leading research partners.

The quality of the research within NSW Health Pathology never ceases to amaze us and we are delighted to again highlight the extraordinary work being done through this report.

We are also continuing to extend and strengthen our connections with local health districts and key research partners to ensure we’re all working together to achieve the best for the people of NSW and beyond.

This is the second report of this kind, and this year we’ve been able to capture even more of our incredible contribution to the national and international research knowledgebase.

We again encourage all NSW Health Pathology researchers to ensure your work is in our Research Activity Register so it can be included in future reports.

Thank you again for all you do. Your dedicated research efforts and astonishing expertise are vital - for all of us.

We again reaffirm NSW Health Pathology’s commitment to supporting you to ensure research continues to be at the heart of what we do each day to protect and promote the health and safety of our communities.

foreword

At NSW Health Pathology, we’re focused on building a supportive and encouraging culture to foster high quality research.

We value the partnerships we have with health services and researchers across NSW to advance better health outcomes for the community.

Supporting and promoting research is key to NSW Health Pathology’s purpose to create better health and justice systems for all of us.

In 2018, we continued to implement our Research and Innovation Framework, with excellent achievements along the way. We saw an increase in the number of research publications, as well as renewed engagement in IdeaLAB, our innovation hub.

NSW Health Pathology also established governance processes to strengthen and promote research within our organisation and become a recognised research site in our own right.

There were 122 research projects registered in our Research Activity Register in 2018 across a wide spectrum of topics. The titles of these research projects were used to create a word cloud (Figure 1) to illustrate the research conducted within NSW Health Pathology in 2018.

Of note, NSW Health Pathology acknowledges that Aboriginal and Torres Strait Islander health research needs to be driven by priorities set by Aboriginal and Torres Strait Islander people. We are committed to developing research capacity within our Aboriginal and Torres Strait Islander communities. Guides have been developed by The Lowitja Institute in response



our story of kinship

This beautiful Aboriginal artwork was commissioned to show NSW Health Pathology's commitment to closing the health and justice gaps for Aboriginal and Torres Strait Islander communities.

We hope it will help our Aboriginal and Torres Strait Islander people feel more culturally safe and welcome when we are providing them care.

The artwork uses the kinship model of Aboriginal communities to tell the story of our statewide pathology and forensic service, and the importance of having strong cultural connections with the communities we serve.

The piece was created by Aboriginal artist, Elsie Randall, a proud Yagel/Bundjalung woman from Maclean and Yamba on the NSW Far North Coast.

Elsie explains that the centre circle of the artwork expresses Aboriginal Lore – the cultural values,

beliefs, rules and protocols that exist at the heart of all Aboriginal communities.

Working from the core outwards, the pink circles show the babies and children of Aboriginal communities. Blue and purple circles surrounding this are adolescent children who traditionally help raise the babies. Pink circles around these symbolise the mums and dads who mentor the adolescents in this nurturing role.

Purple and blue circles outside these pay homage to Aboriginal Elders who support the mums and dads.

Strong Aboriginal men who protect and hold the master skills, and who provide education in hunting and survival to adolescent men, are represented by the outer circles.

Different totems recognise various Aboriginal communities across NSW.

Beside these totems are circles and symbols representing the DNA, blood and bones we share, and NSW Health Pathology's vital work to help create better health and justice systems for all of us.



our values

We always walk our talk by committing to our RITE values and behaviours.

We treat our patients, partners, customers and each other with respect and dignity – always. We embrace what makes us unique as individuals and communities.

respect

We all deserve it

r

integrity

We are trusted partners

i

We are honest, reliable and accountable. We care about protecting the health, safety and wellbeing of all people who rely on and deliver our services.

t

teamwork

We are one team

e

excellence

We lead the way

We are curious and passionate about making a difference through innovation and excellence. We push boundaries and go above and beyond to strive for the best, every time.

We work together connecting our partners, customers and communities to meaningful answers regardless of who they are or where they live, at every stage of life.



our research impact

With an aim to be at the forefront of new tests and emerging technologies, to generate new knowledge and support translational research, NSW Health Pathology is integrating research and innovation into existing pathology and forensic governance and organisational structure.

Current climate (2018-19FY)

- The Australian government invested \$9.64 billion in research and development (8% decrease from 2017-18FY).

- The Commonwealth Department of Health released the ‘Australian Medical Research and Innovation Priorities 2018-2020’, outlining 6 strategic areas for research investment including;

Strategic & international horizons – Antimicrobial resistance, Global health security, Aboriginal & Torres Strait Islander health, Ageing and aged care.

Data and infrastructure – Digital health intelligence

Health services and systems – Comparative effectiveness research, primary care research

Capacity and collaborations – clinical researcher capacity, consumer-driven research

Trials and translation – Drug repurposing, public health interventions

Commercialisation - Translational research infrastructure

From 1978/79 to 2018/19 the Australian Government investment in research and development has increased from \$0 to \$12,000 million. Source: Australian Government investment in R&D (all

sectors). <https://www.industry.gov.au/data-and-publications/science-research-and-innovation-sri-budget-tables>

- NSW Health announced \$115 million to be invested in medical and scientific innovations to help fight diseases, with \$5 million supporting treatments for cancer and rare genetic diseases, \$15 million invested into cardiovascular research and \$20 million in paediatric precision medicine.

- NSW Health released two new strategies; A Population Health Research Strategy 2018-2022 and a Statewide Biobank Collection Strategy 2018-2022, together with the awarding of 10 Biospecimen Collection Grants (\$700k).

- Office of Health and Medical Research’s Medical Devices Fund highlighted the program’s success with one of the previous recipients expanding to Europe and collaborating with a global biopharmaceutical company.



Figure: The titles of all research projects in our Research Activity Register was used to create this word art

achievements in 2018

Building on the great work carried out across 2017, NSW Health Pathology continues to make progress in implementing the Research and Innovation Framework, with >30% of the Framework’s projects implemented under careful guidance from the Research and Innovation Advisory Committee.

With a focus on strengthening the research and innovation agenda through investing in partnerships, networking and processes, and through resource accountability, key activities include;



implementation of research and innovation framework

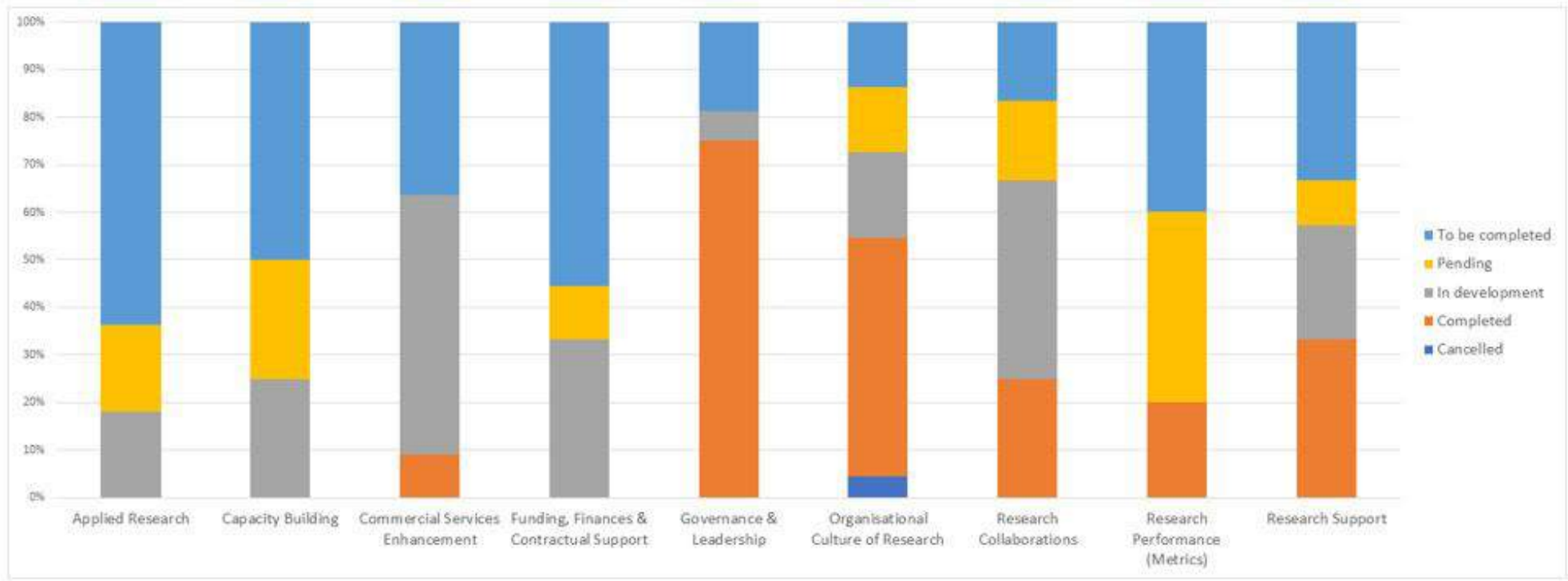
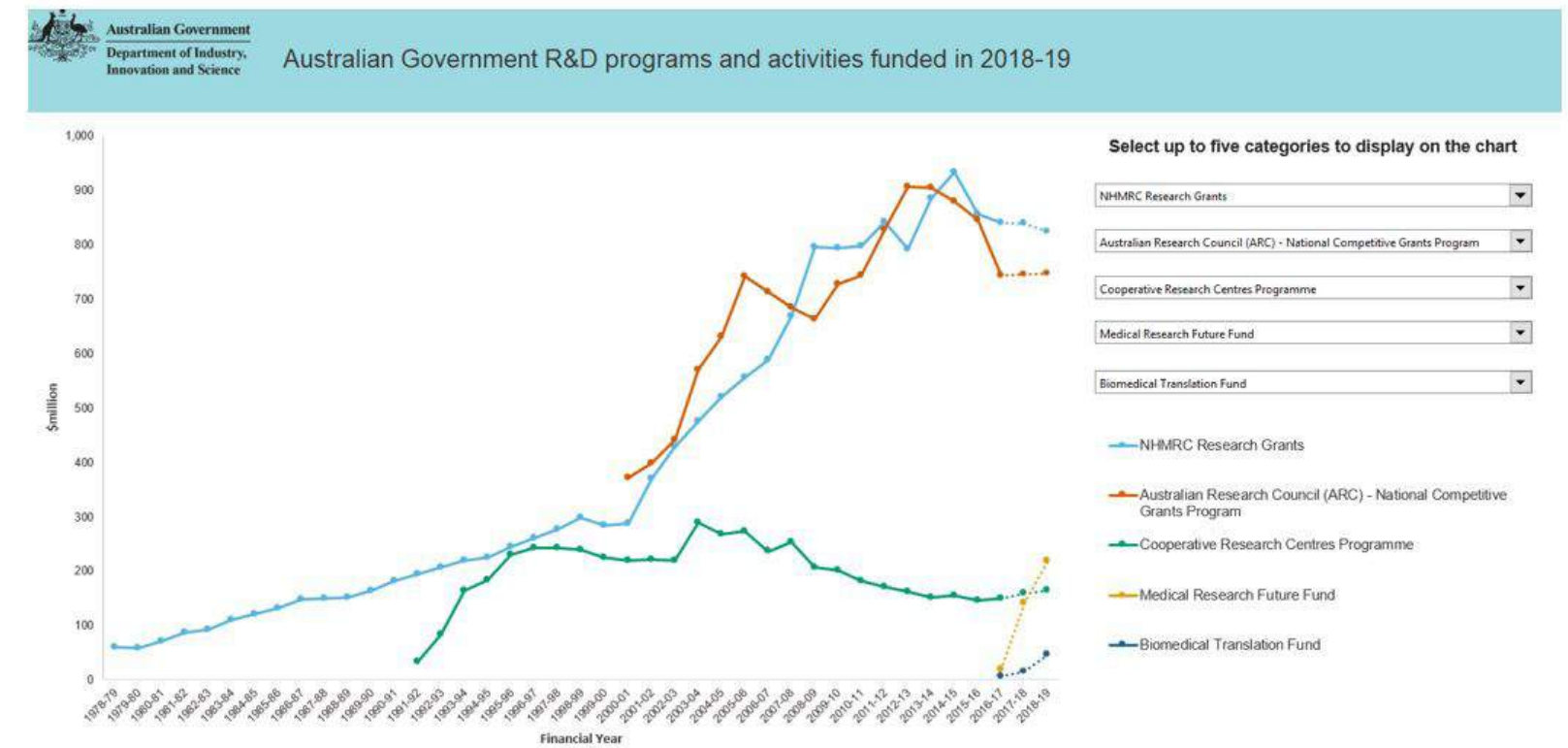


Figure: This graph displays the implementation status of our Research and Innovation Framework grouped into categories.

Australian Government contributions



This graph displays the Australian Government funding through NHMRC, ARC, Cooperative Research Centres, MRFF and Biomedical Translation Fund using science, research and innovation budget tables available online: <https://www.industry.gov.au/data-and-publications/science-research-and-innovation-sri-budget-tables>. It is a snapshot of funding through NHMRC, ARC, Cooperative Research Centres, MRFF and Biomedical Translation Fund (see above).



innovation

In 2018, NSW Health Pathology introduced a new way to have great ideas rapidly reviewed for implementation.

IdeaLAB was created to bring ideas to life. For us to offer a truly extraordinary service we decided to jump on the wave of innovation that is happening in health, science and forensics. It's exciting, ever-changing and competitive and we work together and continue to evolve and improve.

IdeaLAB is a space for our staff to get their ideas off the ground or get behind someone else's. Any suggestions are welcome, big picture changes that make a huge impact or just a small tweak that makes a big improvement to the way we work.

The most engaging ideas are presented to our Executive Directors for sponsorship. If they get the go-ahead they'll be allocated the right people and resources to make it happen. And the idea creator gets the chance to lead the team!



IdeaLAB launched three campaigns in 2018

We are trust leaders

This campaign identified that trust encourages social interactions and collaborations and impacts on motivation and performance. Whilst transformation can impact trust, we asked our organisation what we can do within our organisation to better build trust within our staff, customers and partners.

Let's get smart

This campaign asked the question; 'Do you have an idea on how we can reduce, or even eliminate, our laboratory waste?' NSW Health Pathology acknowledges that there are areas that have been identified as having high levels of stock (reagent wastage). Perhaps an idea on how to develop or use a new novel technology to replace some of the current practices e.g. lab on a chip, microfluidics could be implemented.

Best and Brightest

We told our staff members that; 'No idea is too small or too big and your only limit is your imagination'. Because of this, we needed help to launch our business into infinity and beyond! This campaign was all about any ideas, weird and wonderful that perhaps didn't fit an exact call to action, but rather ones that may have been on the staff's minds for a while.

Overall, we saw **1213 votes** with **484 comments** across a total of **123 ideas** in these three campaigns in 2018. This was all thanks to **771 staff members** organisation wide who jumped on, became members and helped champion Innovation!

advisory committee

- The NSW Health Pathology Research and Innovation Advisory Committee is to provide:
- Research leadership: monitor the Research & Innovation Framework implementation plan, identify gaps in the activity and report back to the Strategic Leadership Team
 - Research advocacy: facilitate research collaboration, promote partnering opportunities and advocate for the use of NSWHP research policies and procedures
 - Research culture: encourage a culture of sharing research activity
 - Research advisor: on issues that may impact NSWHP researchers
 - Research support: grant application, business cases and implementation of new innovations
 - Research promotion: gather research material required for an annual research report.



Roger Wilson
Executive Director,
Clinical Governance
& Quality



Amanda Koegelenberg
Program Director,
Research & Innovation



Andrew Harre
Research Governance
Officer



Bente Talseth-Palmer
Research Support
Project Officer



Stephen Adelstein
Head of Immunology
Department, Royal
Prince Alfred Hospital



Paul Bonnitcha
Chemical Pathology
Registrar - Clinical
Chemistry, RPAH



Stephen Braye
CMIO & Executive
Director, Clinical
Services

advisory committee



Dominic Dwyer
Director, Public Health
Pathology & WSLHD
Local Pathology Director



Mahtab Farzin
Anatomical
Pathologist, Central
West Pathology



Emmanuel Favalaro
Principal Hospital
Scientist (Haematology)
ICPMR, Westmead



Catherine Hitchcock
Senior Scientist &
Research Coordinator
FASS Lidcombe



Tom Karagiannis
Acting Chief Operating
Officer, NSW Health
Statewide Biobank



Murray Killingsworth
Principal Hospital
Scientist
Liverpool Hospital



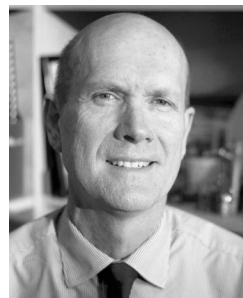
Rob Lindeman
Executive Director,
Clinical Operations



Sue McLennan
Director of
Operations, East



James Patterson
Chief Information
Officer



William Rawlinson
Director, Virology -
South East



Rodney Scott
Director, Molecular
Medicine - North



Michael Symonds
Executive Director,
Forensic & Analytical
Science Service



Vanessa Thomson
Executive Director,
Scientific & Technical



Denis Wakefield
Director, Sutherland
Centre of
Immunology (SCI)

research services

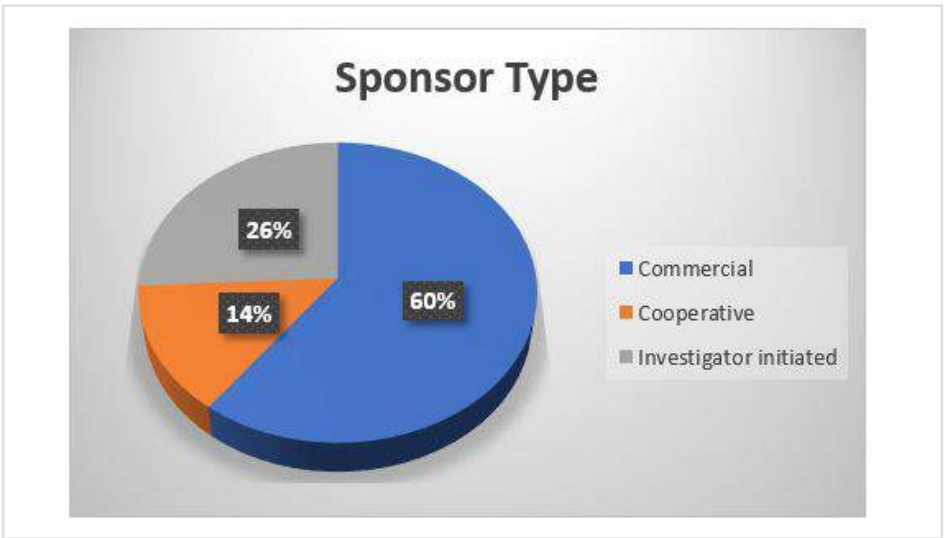
NSW Health Pathology are providing research services to 229 clinical trials that are registered in our Research Activity Register that includes the year 2018.

The status of the study was registered for about half of the entries and most of the studies was active treatment & follow-up (61%) or closed (27%).

As seen in the figure ‘Sponsor Type’, most of the studies have a commercial sponsor (60%). Almost half of the studies (41%) is in the area of oncology and carcinogenesis. The other dominant therapeutic area was other medical and health sciences (40%), followed by public health and health services (9%).

Western Sydney with 121 studies, has the most involvement in clinical trials as seen in the figure ‘Clinical Operations Area’, with South West Sydney and Central Sydney following, both approaching 50 studies each.

The research services are ranging from collection, block/slide retrieval, tissue processing, data entry, processing (both routine and non-routine), dispatch (packing and transport) and storage.



research service coordinators

If you would like to request NSW Health Pathology clinical, forensic or NSW Health Statewide Biobank services to support your research projects, our research co-ordinators can help guide you.



Toby Baldwin
NSW Health
Statewide Biobank



Hayter Wong
South Eastern
Sydney



Neil Catlett
Rural and Regional
NSW



Marette Dean
Illawarra Shoalhaven



Catherine Hitchcock
Forensic & Analytical
Science Service



Karla Jerez
Sydney



Tony Kay
Hunter New England
Central Coast
Mid North Coast
Northern Sydney
Northern NSW



Naheela Lalee
Western Sydney
Nepean
Blue Mountains



Andrew Sargeant
Point of Care Testing
(PoCT)



Zarah Timbol
Western Sydney
Nepean
Blue Mountains



Rina Upadhyay
South Western
Sydney



Santiago Vazquez
Forensic & Analytical
Science Service
Clinical Trials

our structure

The following clinical streams and services have access to the Research Activity Register used to create this report.

Clinical streams

- Anatomical Pathology
- Chemistry
- Haematology
- Immunology
- Microbiology
- Transfusion

Statewide clinical services

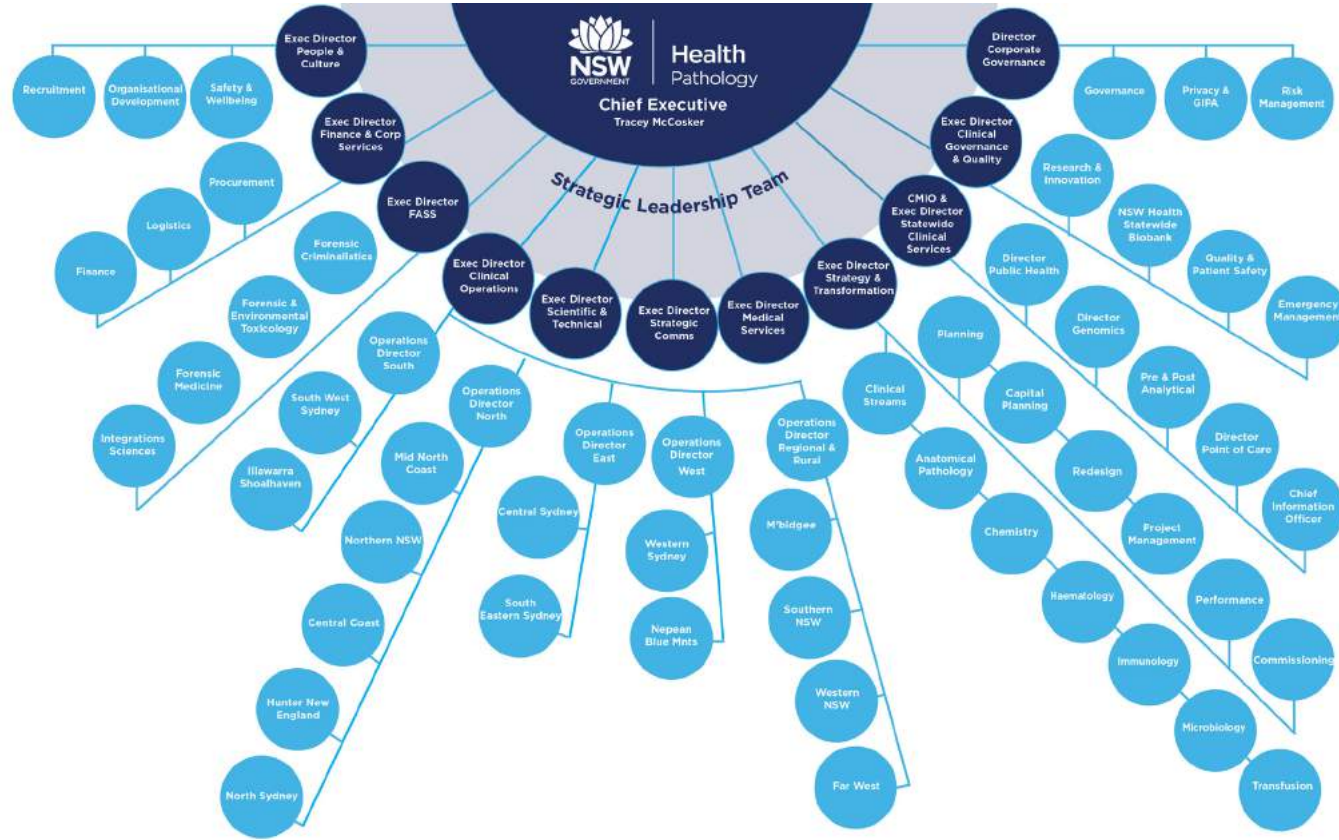
- Genomics
- Point of Care
- Pre and Post Analytical
- Public Health

Statewide services

- Forensic & Analytical Science Service
- NSW Health Statewide Biobank

Clinical Governance & Quality

- Research Office
- Governance Office



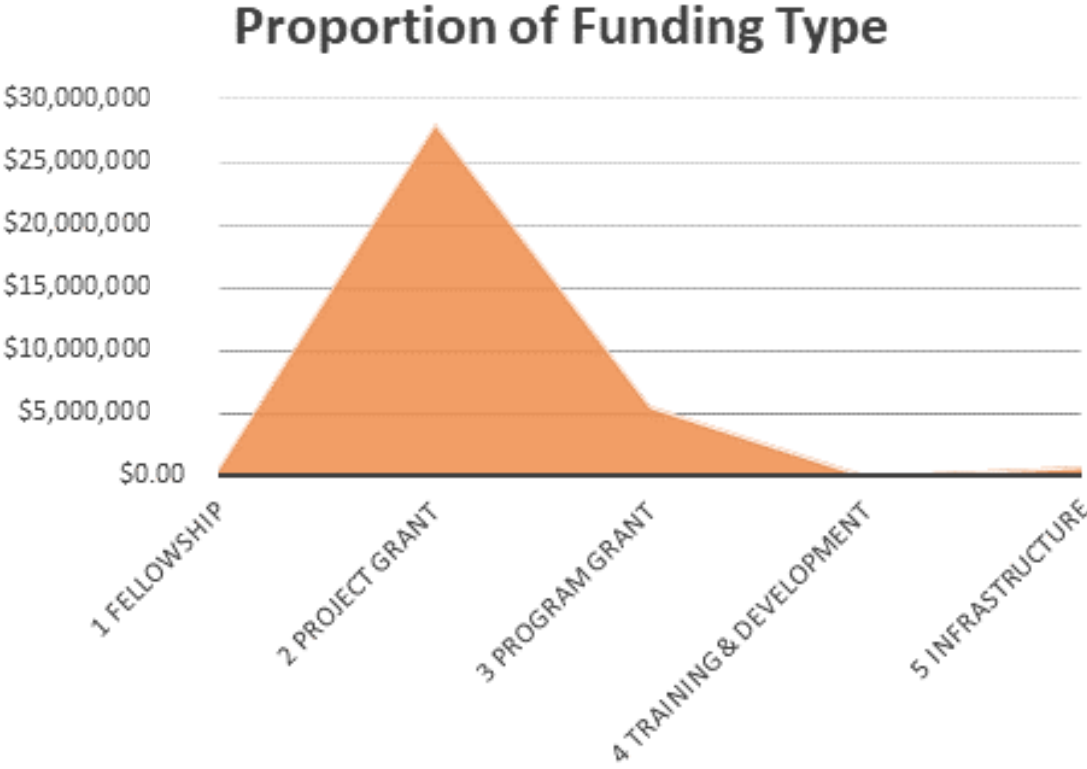
grants

The achievements of grant success that NSW Health Pathology staff are involved in needs to be highlighted!

NSW Health Pathology staff attract many research grants (as chief and/or associate Investigators).

The Research Activity Register contained 35 successful research grants in 2018, totalling an amazing \$35,333,389. Of these 35 grants there were two NHMRC program grants and a massive federal government grant for Mackenzie's mission totalling \$20,000,000.

This would not have been possible without the great collaborative partnership between our staff and fellow colleagues in LHDs, universities and other external collaborations. Well done to all involved!



This chart displays the proportion of funding types that has been registered in the Research Activity Register for 2018.

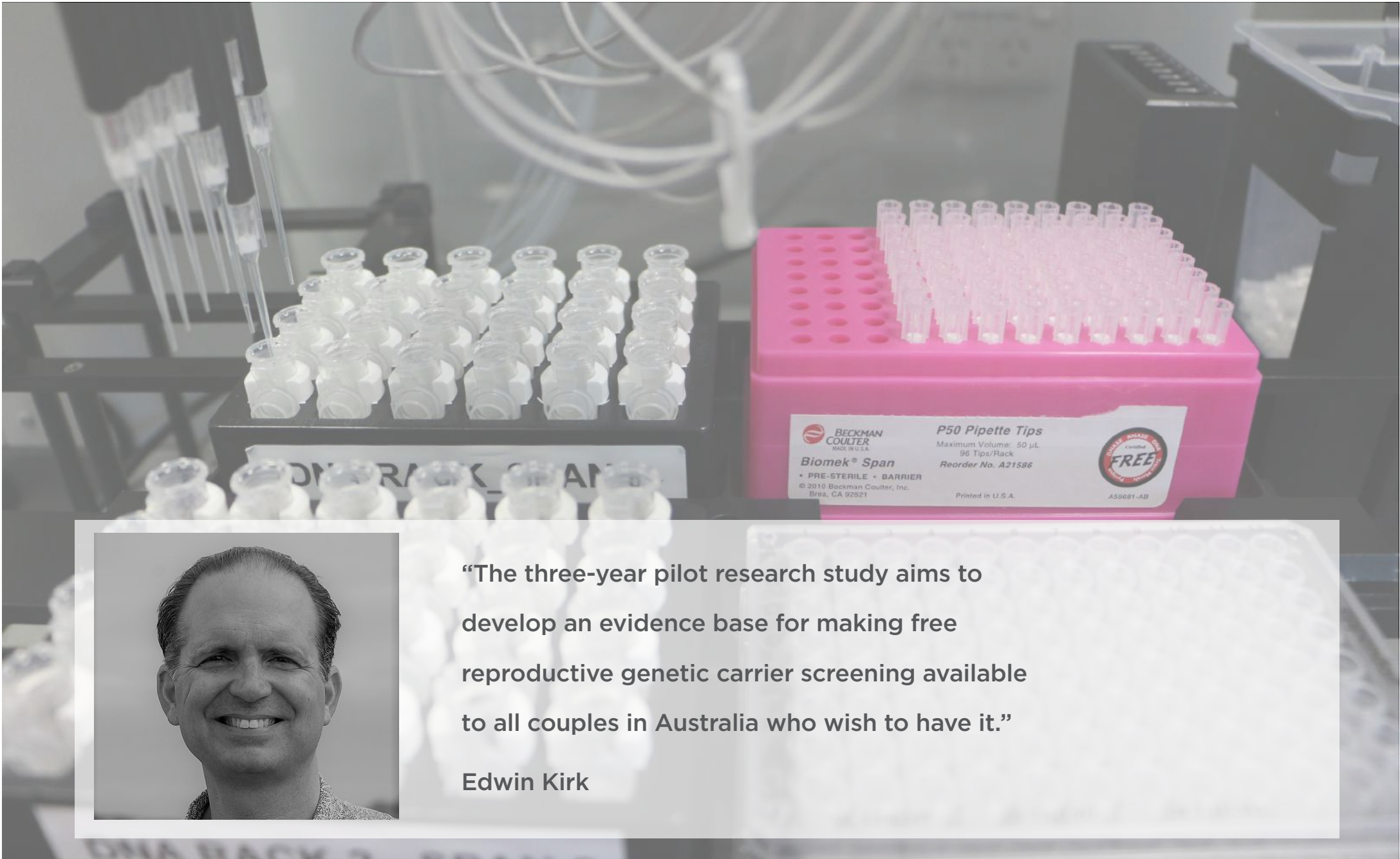
grant in focus

Grant title	Mackenzie's Mission: The Australian Reproductive Carrier Screening Project
Awarded	\$20,000,000. from the Medical Research Future Fund (MRFF) – Genomics Health Futures Mission
Funded Institute	Murdoch Children's Research Institute (administered through Australian Genomics)
Lead investigators	Prof Edwin Kirk (Sydney Children's Hospital and NSW Health Pathology), Prof Martin Delatycki (Victorian Clinical Genetics Services & Murdoch Children's Research Institute) and Prof Nigel Laing (Harry Perkins Institute of Medical Research and The University of Western Australia).
Investigators	Investigators and other study staff from NSW Health Pathology include Ms Corrina Cliffe, A/Prof Tony Roscioli, Dr Michael Buckley, Dr Cliff Meldrum, Dr Ying Zhu, Dr Futao Zhang, Ms Bianca Rodrigues and Ms Natalia Smietanka. External to NSWHP there are numerous investigators listed as part of the study team (www.australiangenomics.org.au).
Funding period	2019 – 2021 (granted in 2018)
Study website	www.mackenziesmission.org.au

In May 2018 Federal budget, the Australian Government announced \$500 million over 10 years towards genomics research: The Genomics Health Futures Mission, starting with a \$20 million pilot study of reproductive genetic carrier screening, called Mackenzie's Mission.

This project aims to screen 10,000 couples to identify those with an increased chance of one of more than 700 serious childhood onset genetic conditions, including some where early diagnosis makes an important difference to outcomes. The study will investigate:

- Reproductive choices made by couples
- The psychosocial impacts of screening, as well as the ethical considerations, health economics and implementation science of reproductive carrier screening.



“The three-year pilot research study aims to develop an evidence base for making free reproductive genetic carrier screening available to all couples in Australia who wish to have it.”

Edwin Kirk

publications overview

Unrestricted, free online access to scholarly articles through open access has revolutionised medical communications.

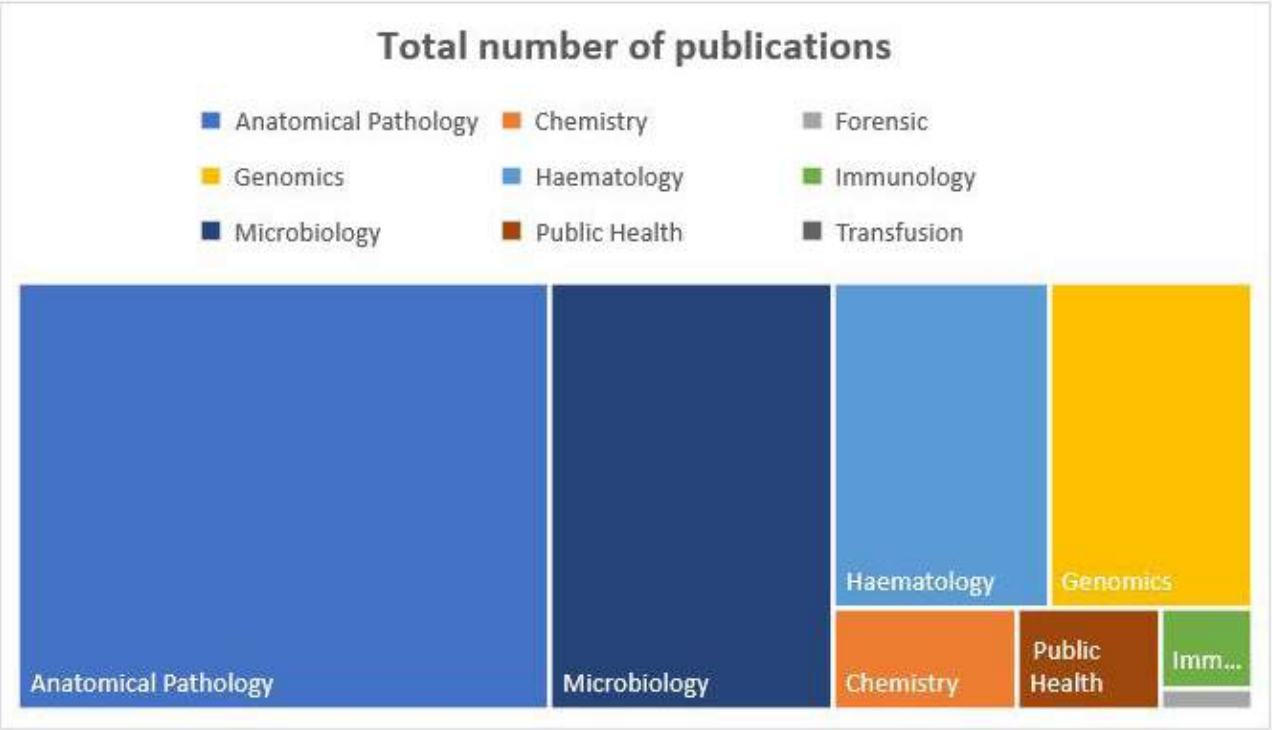
In 2018, NSW Health Pathology staff had registered 510 research publications in our Research Activity Register and many unregistered publications are likely to exist.

Publication types are ranging from original peer reviewed articles, review articles, editorials/ commentary, book chapters and reports/guidelines.

Registered in our 2018 Research Activity Register:

- 360 Original peer reviewed articles
- 42 Review articles
- 56 Book chapters
- 26 Reports/Guidelines
- 26 Editorials/Commentary

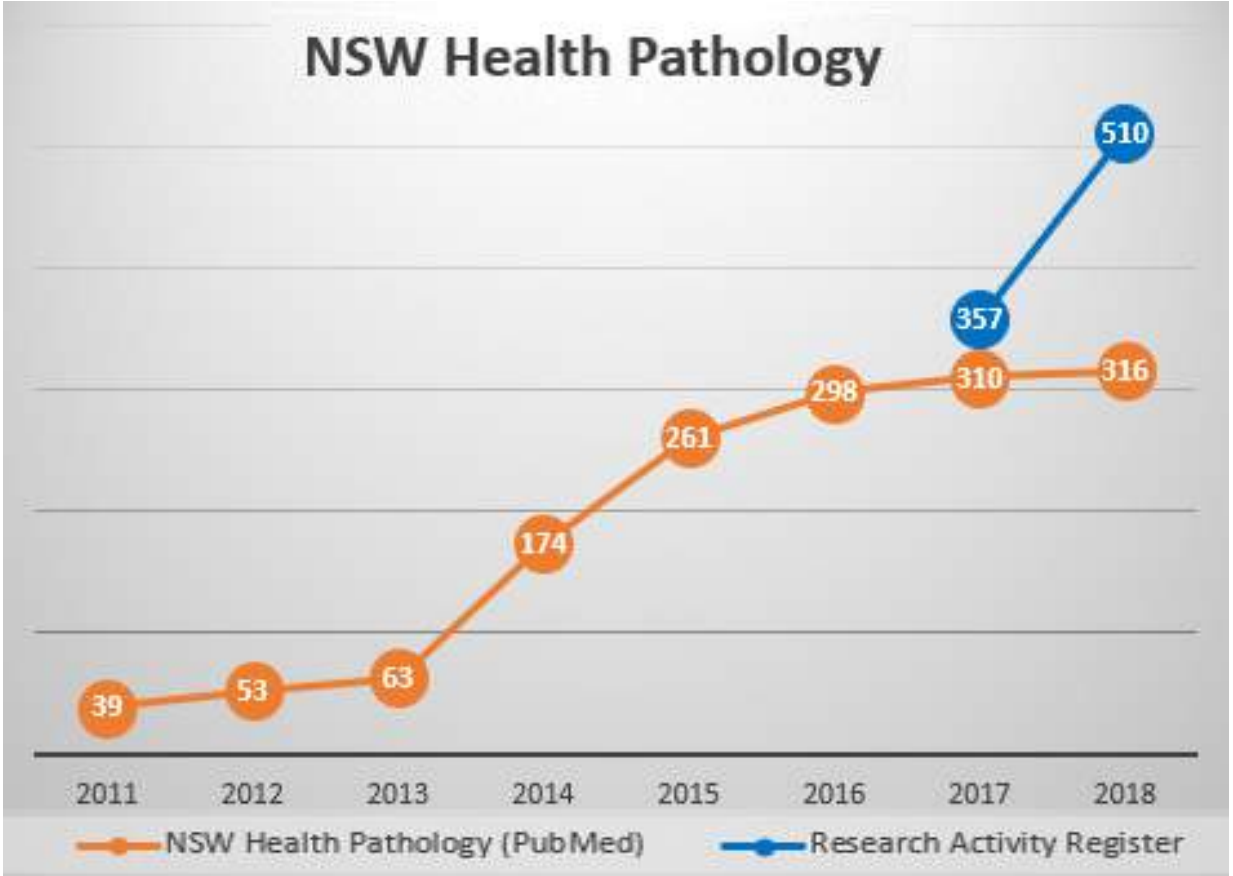
The major contributors of publications from our clinical streams are Anatomical Pathology, Microbiology, Haematology and Genomics.



publication impact

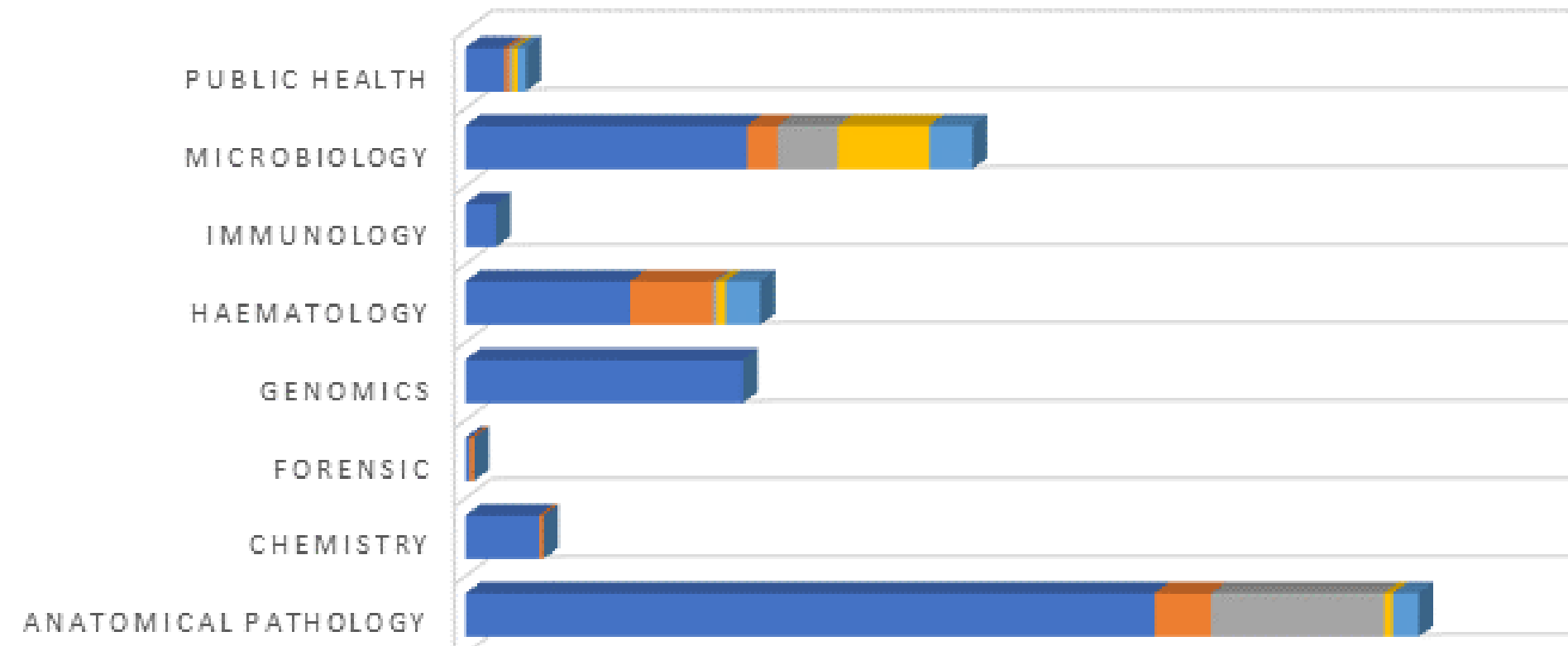
As we can see in this figure, NSW Health Pathology’s publication impact has increased progressively since 2011.

The graph displays publication growth for NSW Health Pathology from 2011 to 2018 using data from PubMed with search terms like NSW Health Pathology, Pathology North, HAPS, Pathology West, ICPMR, SSWPS, Sydney South West Pathology Service, SEALS, South Eastern Area Laboratory Service, and FASS (orange line) compared to data in our research activity register for 2018 (blue line).



PUBLICATION BY CLINICAL STREAM/SERVICE

■ Original Peer Reviewed ■ Review Article ■ Book/ Book Chapter ■ Reports/ Guidelines ■ Editorials/ Commentary



This graph is displaying number of publications by clinical streams/services using 2018 data from the Research Activity Register with a total of 510 publications.

research projects

Out of the 122 research projects that were registered in our research activity register we can see from the graphs below the proportion of projects in Clinical Operations Areas and Therapeutic Areas.

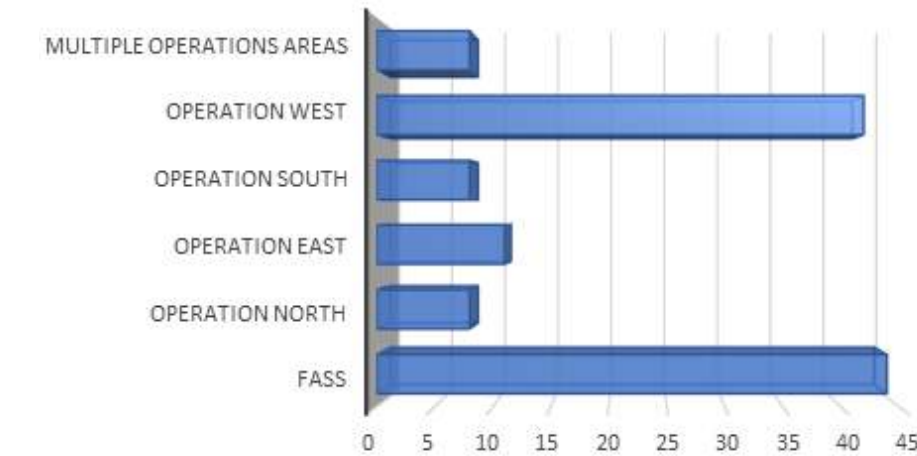
The research projects expected impact in one or a combination of these areas:

- Developed new diagnostic tools/therapies
- Informed policy or practice
- Advanced knowledge
- Capacity for further research
- Improved health systems

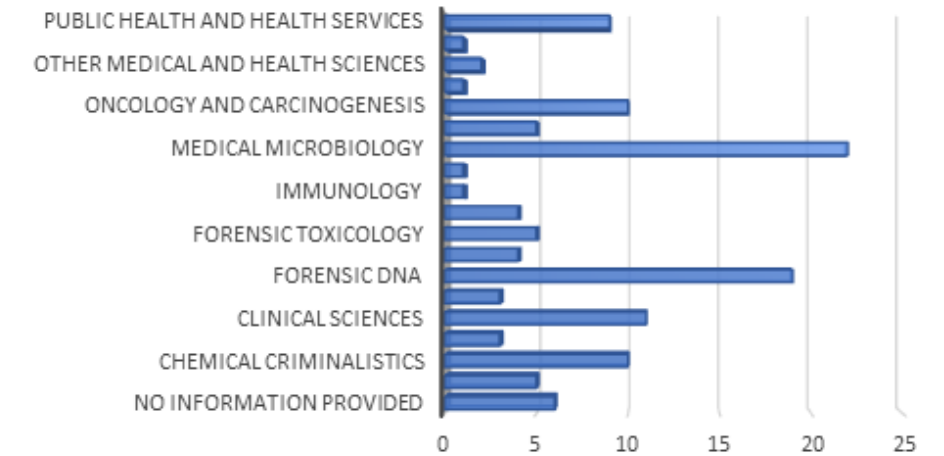
The research we do will most directly impact:

- Public/Communities
- Patients/Families
- Clinicians/Specialists

Number of research projects



Therapeutic Area



research streams



clinical streams



Scott Jansson
Clinical Streams Coordinator

NSW Health Pathology has six clinical streams.

The Clinical Streams were established to improve the quality, safety and efficiency of public pathology services, and promote collaboration among clinicians, scientists and other staff across pathology disciplines.

They are charged with developing strategies that will improve the outcome and value for patients, clinicians, customers and stakeholders through the equitable, safe and efficient delivery of pathology services across NSW and to all patients.

The Clinical Streams provide expert advice and undertake tasks to achieve NSW Health Pathology's strategic initiatives.

The Clinical Streams are:

- Anatomical Pathology
- Chemical Pathology
- Haematology

- Immunology
- Microbiology
- Transfusion

The purpose of the Clinical Streams is:

- To provide leadership in shaping the statewide direction for clinical services
- To develop recommendations for innovative models of service delivery to patients and customers
- To set best practice clinical standards and policy for services at a statewide level
- To provide clinical advice on emerging issues and areas of risk to help ensure NSW Health Pathology provides high quality, safe clinical services to the NSW Health system.

The Clinical Streams actively support research in medical and scientific areas relevant to public pathology through their respective clinical disciplines

anatomical pathology

Anatomical Pathology is the branch of pathology that deals with the tissue diagnosis of disease.

For this, Anatomical Pathologists need a broad-based knowledge and understanding of the pathological and clinical aspects of many diseases.

The work of most Anatomical Pathologists is, however, on tissue from living patients but modern Anatomical Pathologists examine not only samples of solid tissue, but also small specimens of separated cells (cytology).



Paul McKenzie
Clinical Stream Lead

publication in focus

Journal citation - Histopathology. 2018;73(1):8-18.

Title - Utility of Pathology Imagebase for Standardisation of Prostate Cancer Grading

Authors - Lars Egevad¹, Brett Delahunt, Daniel M Berney, David G Bostwick, John Cheville, Eva Comperat, Andrew J Evans, Samson W Fine, David J Grignon, Peter A Humphrey, Jonas Hörnblad, Kenneth A Iczkowski, **James G Kench**, Glen Kristiansen, Katia R M Leite, Cristina Magi-Galluzzi, Jesse K McKenney, Jon Oxley, Chin-Chen Pan, Hemamali Samaratunga, John R Srigley, Hiroyuki Takahashi, Lawrence D True, Toyonori Tsuzuki, Theo van der Kwast, Murali Varma, Ming Zhou, Mark Clements.

International experts come together to make a Imagebase.

Pathologists have struggled with the reproducibility of prostate cancer grading for more than 40 years. Despite efforts to standardise grading of prostate cancer, even among experts there is still a considerable variation in grading practices. In this study we describe the use of Pathology Imagebase, a novel reference image library, for setting an

international standard in prostate cancer grading.

The International Society of Urological Pathology (ISUP) recently launched a reference image database supervised by experts.

A panel of 24 international experts in prostate pathology reviewed independently microphotographs of 90 cases of prostate needle biopsies with cancer (consensus was reached in 50 cases). The highest level of agreement was seen for Gleason score (GS) 3 + 3 = 6 (ISUP grade 1), while higher grades and particularly GS 4 + 3 = 7 (ISUP grade 3) showed considerable disagreement.

Once a two-thirds majority was reached, images were moved automatically into a public database available for all ISUP members at www.isupweb.org. Non-members can access a limited number of cases. It is anticipated that the database will assist pathologists to calibrate their grading and, hence, decrease interobserver variability.

It will also help to identify instances where definitions of grades need to be clarified.



James Kench

on the training and experience of the pathologist involved.

The International Society of Urological Pathology (ISUP) Imagebase addresses this problem by providing an open-access digital atlas of prostate cancer cases designed by international experts to calibrate and standardise grading—providing an invaluable resource for pathologists and their patients anywhere in world.”

“Prostate cancer grade is a powerful predictor of behaviour and is critical for separating aggressive cancers, which require surgery or radiation therapy, from those that are unlikely to spread and can be treated more conservatively. However, prostate cancer grading is complex, and results have varied depending

publications

Nº	Publication	Publication Title	Authors	Citation
1	Original Peer Reviewed	Cryoglobulinemic Glomerulonephritis Associated With Nodal and Renal Infiltration by T-Cell Lymphoma of T-Follicular Helper Phenotype: A Case Report.	Li J, Umakanathan M, P'ng CH, Varikatt W, Kwok F, Lin MW, Vucak-Dzumhur M.	Am J Kidney Dis. 2018 Oct;72(4):606-611. / pubmed/29784613
2	Original Peer Reviewed	Sarcomatoid Carcinoma of the Renal Pelvis with Prominent Chondrosarcomatous and Osteosarcomatous Elements: A Case Report.	Nair S, Lau H, P'ng CH.	Global Urology and Nephrology, 2018. Vol 1. Issue 1:5.
3	Original Peer Reviewed	Differences in LC3B expression and prognostic implications in oropharyngeal and oral cavity squamous cell carcinoma patients.	Lai K, Matthews S, Wilmott JS, Killingsworth MC, Yong JL, Caixeiro NJ, Wykes J, Samakeh A, Forstner D, Lee M, McGuinness J, Niles N, Hong A, Ebrahimi A, Lee CS.	BMC Cancer. 2018 Jun 1;18(1):624. / pubmed/29859041
4	Original Peer Reviewed	Cuticular Drusen: Clinical Phenotypes and Natural History Defined Using Multimodal Imaging.	Balaratnasingam C, Cherepanoff S, Dolz-Marco R, Killingsworth M, Chen FK, Mendis R, Mrejen S, Too LK, Gal-Or O, Curcio CA, Freund KB, Yannuzzi LA.	Ophthalmology. 2018 Jan;125(1):100-118. / pubmed/28964580

publications

Nº	Publication	Publication Title	Authors	Citation
5	Original Peer Reviewed	Reappraisal of Morphologic Differences Between Renal Medullary Carcinoma, Collecting Duct Carcinoma, and Fumarate Hydratase-deficient Renal Cell Carcinoma	Ohe C, Smith SC, Sirohi D, Divatia M, de Peralta-Venturina M, Paner GP, Agaimy A, Amin MB, Argani P, Chen YB, Cheng L, Colecchia M, CompÃ©rat E, Werneck da Cunha I, Epstein JI, Gill AJ, Hes O, Hirsch MS, Jochum W, Kunju LP, Maclean F, Magi-Galluzzi C, et al.	Am J Surg Pathol. 2018 Mar;42(3):279-292.
6	Original Peer Reviewed	Prognostic Significance of Periadnexal Extension in Cutaneous Melanoma and its Implications for Pathologic Reporting and Staging.	Dodds TJ, Lo S, Jackett L, Nieweg O, Thompson JF, Scolyer RA.	Am J Surg Pathol. 2018 Mar;42(3):359-366. /pubmed/29240580
7	Original Peer Reviewed	Pathological assessment of resection specimens after neoadjuvant therapy for metastatic melanoma.	Tetzlaff MT, Messina JL, Stein JE, Xu X, Amaria RN, Blank CU, van de Wiel BA, Ferguson PM, Rawson RV, Ross MI, Spillane AJ, Gershenwald JE, Saw RPM, van Akkooi ACJ, van Houdt WJ, Mitchell TC, Menzies AM, Long GV, Wargo JA, Davies MA, Prieto VG, Taube JM, et al.	Ann Oncol. 2018 Aug 1;29(8):1861-1868. / pubmed/29945191

publications

Nº	Publication	Publication Title	Authors	Citation
8	Original Peer Reviewed	Pre-treatment circulating cytokines predict toxicity with combination anti-PD1 and anti-CTLA4 immunotherapy.	Lee JH, Lim SY, Menzies AM, Carlino MS, Guminski A, Nahar K, Palmieri D, Breen E, Kefford R, Scolyer R, Long GV, Rizos H.	Ann Oncol. 2018 Oct;29 Suppl 8: viii659. / pubmed/32137796
9	Original Peer Reviewed	OpACIN-neo: A multicenter phase II study to identify the optimal neo-adjuvant combination scheme of ipilimumab (IPI) and nivolumab (NIVO).	Blank CU, Rozeman EA, Menzies AM, van de Wiel BA, Adhikari C, Sikorska K, Krijgsman O, Eriksson H, Bierman C, Grijpink-Ongering L, Gonzalez M, Broeks A, Guminski AD, Spillane AJ, Klop WMC, Saw RPM, Scolyer RA, van Akkooi ACJ, Hansson J, Long GV.	Ann Oncol. 2018 Oct;29 Suppl 8: viii734. / pubmed/32138016
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15	Original Peer Reviewed	Precision Oncology in Surgery: Patient Selection for Operable Pancreatic Cancer.	Dreyer SB, Pinese M, Jamieson NB, Scarlett CJ, Colvin EK, Pajic M, Johns AL, Humphris JL, Wu J, Cowley MJ, Chou A, Nagrial AM, Chantrill L, Chin VT, Jones MD, Moran-Jones K, Carter CR, Dickson EJ, Samra JS, Merrett ND, Gill AJ, Kench JG, et al.	Ann Surg. 2018 Nov 30. / pubmed/30570546
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19	Original Peer Reviewed	Value of temporal artery biopsy length in diagnosing giant cell arteritis	Oh LJ, Wong E, Gill AJ, McCluskey P, Smith JEH	ANZ J Surg. 2018 Mar;88(3):191-195. / pubmed/27800647
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24	Original Peer Reviewed	Three-Dimensional Pathology Specimen Modeling Using “Structure-From-Motion” Photogrammetry: A Powerful New Tool for Surgical Pathology.	Turchini J, Buckland ME, Gill AJ, Battye S.	Arch Pathol Lab Med. 2018 Nov;142(11):1415-1420. /pubmed/29846102

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28	Original Peer Reviewed	Using behaviour change and implementation science to address low referral rates in oncology.	Long JC, Debono D, Williams R, Salisbury E, O'Neill S, Eykman E, Butler J, Rawson R, Phan-Thien KC, Thompson SR, Braithwaite J, Chin M, Taylor N.	BMC Health Serv Res. 2018 Nov 28;18(1):904. /pubmed/30486812
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41	Original Peer Reviewed	Comprehensive Analysis of Alternative Splicing Across Tumors from 8,705 Patients.	Kahles A, Lehmann KV, Toussaint NC, Hüser M, Stark SG, Sachsenberg T, Stegle O, Kohlbacher O, Sander C; Cancer Genome Atlas Research Network., Rättsch G.	Cancer Cell. 2018 Aug 13;34(2):211-224.e6. / pubmed/30078747
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84	Original Peer Reviewed	The clinical significance and synchronous polyp burden of large (>=20mm) sessile serrated polyps in patients without serrated polyposis syndrome.	Desomer L, Tate DJ, Jayanna M, Pellise M, Awadie H, Burgess NG, McLeod D, Mahajan H, Lee EYT, Williams SJ, Bourke MJ.	Endoscopy. 2018 Nov;50(11):1080-1088. / pubmed/29739023
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143	Original Peer Reviewed	Immunohistochemical expression of somatostatin receptors SSTR2A and SSTR5 in 299 pituitary adenomas.	Fuchs TL, Sioson L, Sheen A, Clarkson A, Gill AJ.	Pathology. 2018 Jun; 50(4):472-474. / pubmed/29731144
144	Original Peer Reviewed	Oral malignant gastrointestinal neuroectodermal tumour with junctional component mimicking mucosal melanoma.	Allanson BM, Weber MA, Jackett LA, Chan C, Lau L, Ziegler DS, Warby M, Mayoh C, Cowley MJ, Tucker KM, Long GV, Maher A, Anazodo A, Scolyer RA.	Pathology. 2018 Oct; 50(6):648-653. / pubmed/30177220
145	Original Peer Reviewed	Unresectable VIP-secreting neuroblastoma: Efficacy of debulking and steroids for symptom control.	Kabalan P, Gifford AJ, Ziegler DS.	Pediatr Blood Cancer. 2018 Dec; 65(12): e27358. /pubmed/30024090
146	Original Peer Reviewed	Rare MYC-amplified Neuroblastoma with Large Cell Histology.	Matsuno R, Gifford AJ, Fang J, Warren M, Lukeis RE, Trahair T, Sugimoto T, Marachelian A, Asgharzadeh S, Maris JM, Ikegaki N, Shimada H.	Pediatr Dev Pathol. 2018 Sep-Oct;21(5):461-466. /pubmed/29426276
147	Original Peer Reviewed	Alectinib is effective, safe and tolerable in an adolescent with stage IVB ALK-rearranged adenocarcinoma of the lung.	Balzer BWR, Loo C, Wegner EA, Nath CE, Lee S, Smith C, Lewis CR, Trahair TN, Anazodo AC.	Pediatr Hematol Oncol. 2018 Oct - Nov;35(7-8):415-421. /pubmed/30526220
148	Original Peer Reviewed	Altered mitochondrial genome content signals worse pathology and prognosis in prostate cancer.	Kalsbeek AMF, Chan EKF, Grogan J, Petersen DC, Jaratlerdsiri W, Gupta R, Lyons RJ, Haynes AM, Horvath LG, Kench JG, Stricker PD, Hayes VM.	Prostate. 2018 Jan;78(1):25-31. / pubmed/29134670

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Nº	Publication	Publication Title	Authors	Citation
149	Original Peer Reviewed	Effect of FAK inhibitor VS-6063 (defactinib) on docetaxel efficacy in prostate cancer.	Lin HM, Lee BY, Castillo L, Spielman C, Grogan J, Yeung NK, Kench JG, Stricker PD, Haynes AM, Centenera MM, Butler LM, Shreeve SM, Horvath LG, Daly RJ.	Prostate. 2018 Mar; 78(4):308-317. / pubmed/29314097
150	Original Peer Reviewed	A 14-Protein Signature for Rapid Identification of Poor Prognosis Stage III Metastatic Melanoma.	Sykes EK, McDonald CE, Ghazanfar S, Mactier S, Thompson JF, Scolyer RA, Yang JY, Mann GJ, Christopherson RI.	Proteomics Clin Appl. 2018 May;12(3): e1700094. /pubmed/29227041
151	Original Peer Reviewed	Oncogenic osteomalacia.	Annamalai AK, Gill AJ, Shinto A, Sivakumar R, Singhi PK, Prabhu VA, Gopalakrishnan C, Chelian M, Sridhar S, Shanthi R, Puri V, Gururaj N, Srinivasan KG, Clifton-Bligh R, Gurnell M.	QJM. 2018 Jun 1;111(6):421-422. / pubmed/29319792
152	Original Peer Reviewed	Blood microvasculature and lymphatic densities in endometrial polyps and adjacent and distant endometrium.	Nijkang NP, Anderson L, Markham R, Fraser IS, Manconi F.	SAGE Open Med. 2018 Mar 12;6: 2050312118761287. /pubmed/29568523
153	Original Peer Reviewed	Brain metastasis DNA methylomes, a novel resource for the identification of biological and clinical features.	Salomon MP, Orozco JIJ, Wilmott JS, Hothi P, Manughian-Peter AO, Cobbs CS, Scolyer RA, Hoon DSB, Marzese DM.	Sci Data. 2018 Nov 6; 5:180245. / pubmed/30398472

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Nº	Publication	Publication Title	Authors	Citation
154	Original Peer Reviewed	RGS7 is recurrently mutated in melanoma and promotes migration and invasion of human cancer cells.	Qutob N, Masuho I, Alon M, Emmanuel R, Cohen I, Di Pizio A, Madore J, Elkahloun A, Ziv T, Levy R, Gartner JJ, Hill VK, Lin JC, Hevroni Y, Greenberg P, Brodezki A, Rosenberg SA, Kosloff M, Hayward NK, Admon A, Niv MY, Scolyer RA, et al.	Sci Rep. 2018 Jan 12;8(1):653. Erratum in: Sci Rep. 2019 Mar 9;9(1):4523. / pubmed/29330521
155	Original Peer Reviewed	Multiple liver insults synergize to accelerate experimental hepatocellular carcinoma.	Henderson JM, Polak N, Chen J, Roediger B, Weninger W, Kench JG, McCaughan GW, Zhang HE, Gorrell MD.	Sci Rep. 2018 Jul 6; 8(1):10283. / pubmed/29980757
156	Original Peer Reviewed	Lysyl oxidase-like 2 inhibition ameliorates glomerulosclerosis and albuminuria in diabetic nephropathy.	Stangenberg S, Saad S, Schilter HC, Zaky A, Gill A, Pollock CA, Wong MG.	Sci Rep. 2018 Jun 21; 8(1):9423. / pubmed/29930330
157	Original Peer Reviewed	Metastases to the parotid gland - A review of the clinicopathological evolution, molecular mechanisms and management.	Badlani J, Gupta R, Smith J, Ashford B, Ch'ng S, Veness M, Clark J.	Surg Oncol. 2018 Mar; 27(1):44-53. / pubmed/29549903

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Nº	Publication	Publication Title	Authors	Citation
158	Original Peer Reviewed	High-grade oncocytic renal tumor”: morphologic, immunohistochemical, and molecular genetic study of 14 cases.	He H, Trpkov K, Martinek P, Isikci OT, Maggi-Galuzzi C, Alaghehbandan R, Gill AJ, Tretiakova M, Lopez JI, Williamson SR, Montiel DP, Sperga M, Comperat E, Brimo F, Yilmaz A, Pivovarcikova K, Michalova K, Slouka D, Prochazkova K, Hora M, Bonert M, Michal M, et al.	Virchows Arch. 2018 Dec; 473(6):725-738. / pubmed/30232607
159	Original Peer Reviewed	Medullary Thyroid Carcinoma: Survival Analysis and Evaluation of Mutation-Specific Immunohistochemistry in Detection of Sporadic Disease	Jayakody S, Reagh J, Bullock M, Aniss A, Clifton-Bligh R, Learoyd D, Robinson B, Delbridge L, Sidhu S, Gill AJ, Sywak M	World J Surg. 2018 May; 42(5):1432-1439. / pubmed/29484475
160	Review Article	Fluorescent In Situ Hybridization in Surgical Pathology Practice.	Gupta R, Cooper WA, Selinger C, Mahar A, Anderson L, Buckland ME, O’Toole SA.	Adv Anat Pathol. 2018 Jul; 25(4):223-237. / pubmed/29727321
161	Review Article	HPV-related Oropharyngeal Carcinoma: A Review of Clinical and Pathologic Features with Emphasis on Updates in Clinical and Pathologic Staging.	Buckley L, Jackett L, Clark J, Gupta R.	Adv Anat Pathol. 2018 May; 25(3):180-188. /pubmed/29394171
162	Review Article	Melanoma Staging: American Joint Committee on Cancer (AJCC) 8th Edition and Beyond.	Gershenwald JE, Scolyer RA.	Ann Surg Oncol. 2018 Aug; 25(8):2105-2110. Erratum in: Ann Surg Oncol. 2018 / pubmed/29850954 Dec;25(Suppl 3):993-994.

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Nº	Publication	Publication Title	Authors	Citation
163	Review Article	Primary salivary gland malignancies: a review of clinicopathological evolution, molecular mechanisms and management.	Badlani J, Gupta R, Balasubramanian D, Smith J, Luk P, Clark J.	ANZ J Surg. 2018 Mar; 88(3):152-157. / pubmed/28982213
164	Review Article	Biomarkers for ALK and ROS1 in Lung Cancer: Immunohistochemistry and Fluorescent In Situ Hybridization.	Luk PP, Selinger CI, Mahar A, Cooper WA.	Arch Pathol Lab Med. 2018 Aug; 142(8):922-928. /pubmed/29902067
165	Review Article	The Evolving Understanding of the Molecular and Therapeutic Landscape of Pancreatic Ductal Adenocarcinoma.	Parkin A, Man J, Chou A, Nagrial AM, Samra J, Gill AJ, Timpson P, Pajic M.	Diseases. 2018 Nov 13;6(4). pii: E103. / pubmed/30428574
166	Review Article	Squamous Cell Carcinoma of the External Auditory Canal and Temporal Bone: An Update.	Allanson BM, Low TH, Clark JR, Gupta R.	Head Neck Pathol. 2018 Sep; 12(3):407-418. /pubmed/30069837
167	Review Article	Succinate dehydrogenase (SDH)-deficient neoplasia.	Gill AJ.	Histopathology. 2018 Jan; 72(1):106-116.
168	Review Article	Pathology and genetics of phaeochromocytoma and paraganglioma.	Turchini J, Cheung VKY, Tischler AS, De Krijger RR, Gill AJ	Histopathology. 2018 Jan; 72(1):97-105.
169	Review Article	Targeted Molecular Treatments in Non-Small Cell Lung Cancer: A Clinical Guide for Oncologists.	Bui KT, Cooper WA, Kao S, Boyer M.	J Clin Med. 2018 Jul 31;7(8). pii: E192. / pubmed/30065223
170	Review Article	Immunotherapy in Non-Small Cell Lung Cancer: Shifting Prognostic Paradigms.	Barnet MB, Cooper WA, Boyer MJ, Kao S.	J Clin Med. 2018 Jun 14;7(6). pii: E151. / pubmed/29904031
171	Review Article	An Update on Predictive Biomarkers for Treatment Selection in Non-Small Cell Lung Cancer.	Ahmadzada T, Kao S, Reid G, Boyer M, Mahar A, Cooper WA.	J Clin Med. 2018 Jun 15;7(6). pii: E153. / pubmed/29914100

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Nº	Publication	Publication Title	Authors	Citation
172	Review Article	Next generation immunohistochemistry: Emerging substitutes to genetic testing?	Andrici J, Gill AJ, Hornick JL.	Semin Diagn Pathol. 2018 May;35(3):161-169. /pubmed/28662997
173	Books/Book Chapters	Pathology of Phaeochromocytoma and Paragangliomas	Turchini J, Gill AJ, Tischler A	Contemporary Endocrinology, Pheochromocytomas, Paragangliomas and Disorders of the Sympathoadrenal System Chapter 2, pages 15-37; 2018.
174	Books/Book Chapters	Melanoma – A Modern Multidisciplinary Approach Adam I. Riker (Pages 1-13) History of Melanoma	John F. Thompson, Richard Kefford, Graham Stevens, Richard Scolyer	History of Melanoma - Springer 2018 (Pages 1-13)
175	Books/Book Chapters	Introduction keratinocytic/epidermal tumours	Scolyer R. Armstrong B. Berti E. Damian D. Elder D.E. Massi D. Messina J.	Keratinocytic/ epidermal tumours - Who Classification of Skin Tumours 4th Edition 2018
176	Books/Book Chapters	Uncommon Cutaneous Malignancies	Read RL, Scolyer RA, Thompson JF	Textbook of Complex General Surgical Oncology (First Edition) Ch 21 pp 213 2018
177	Books/Book Chapters	Basal Cell Carcinoma	Shashank A, Guminski AD, Alrub N, Scolyer RA, Damian D, Thompson JF	Textbook of Complex General Surgical Oncology (First Edition) Ch 22 pp 219 2018
178	Books/Book Chapters	2-6 Combined naevus	Scolyer R.A, et al	Who Classification of Skin Tumours 4th Edition 2018
179	Books/Book Chapters	3-1 Appendageal tumours	Massi D, Cree I.A, Elder D.E, Kazakov D.V, Scolyer R.A.	Who Classification of Skin Tumours 4th Edition 2018
180	Books/Book Chapters	3-2A Adnexal adenocarcinoma not otherwise specified	Massi D, Prieto V.G, Cree I.A, Elder D.E, Scolyer R.A, Singh R	Who Classification of Skin Tumours 4th Edition 2018
181	Books/Book Chapters	3-2A Tubular carcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018

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Nº	Publication	Publication Title	Authors	Citation
182	Books/Book Chapters	3-2B Microcystic adnexal carcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
183	Books/Book Chapters	3-2C Porocarcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
184	Books/Book Chapters	3-2D Malignant neoplasms arising from pre-existing spiradenoma, cylindroma, and spiradenocylindroma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
185	Books/Book Chapters	3-2E Malignant mixed tumour	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
186	Books/Book Chapters	3-2F Hidradenocarcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
187	Books/Book Chapters	3-2G Mucinous carcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
188	Books/Book Chapters	3-2H Digital papillary adenocarcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
189	Books/Book Chapters	3-2I Adenoid cystic carcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
190	Books/Book Chapters	3-2J Apocrine carcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
191	Books/Book Chapters	3-2K Endocrine mucin-producing sweat gland carcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
192	Books/Book Chapters	3-2L Squamoid eccrine ductal carcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018

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Nº	Publication	Publication Title	Authors	Citation
193	Books/Book Chapters	3-2M Syringocystadenocarcinoma papilliferum	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
194	Books/Book Chapters	3-2N Secretory carcinoma of the skin	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
195	Books/Book Chapters	3-2O Cribriform carcinoma	Scolyer R.A. et al	Who Classification of Skin Tumours 4th Edition 2018
196	Books/Book Chapters	5-1 Soft tissue and neural tumours: introduction	Lazar A.J, Billings S.D, Calonje E, Elder D.E, Hornick J.L, Massi D, Requena L, Scolyer R.	Who Classification of Skin Tumours 4th Edition 2018
197	Books/Book Chapters	5-7B Solitary circumscribed neuroma	Ferguson P.M, Scolyer R, Argenyi Z.B, Hollmann T.	Who Classification of Skin Tumours 4th Edition 2018
198	Books/Book Chapters	5-8F Ewing sarcoma	Patel R.M, Scolyer R	Who Classification of Skin Tumours 4th Edition 2018
199	Books/Book Chapters	6-1 Introduction	Scolyer RA, Cree IA, Elder DE, Lazar AJ, Massi D	Who Classification of Skin Tumours 4th Edition 2018
200	Books/Book Chapters	6-6 BAP1 tumour predisposition syndrome	Bastian BC, De La Fouchaediére A, Hayward N, Murali R, Scolyer RA, Wiesner T	Who Classification of Skin Tumours 4th Edition 2018
201	Books/Book Chapters	Basal cell carcinoma	Messina J, Epstein, EH, Kossard S, McKenzie C, Patel R, Patterson JW, Scolyer RA	Who Classification of Skin Tumours 4th Edition 2018
202	Books/Book Chapters	Blue naevus, cellular blue naevus	Scolyer R.A, Calonje E, de la Fouchardiére A, Fullen D.R, Gerami P, Requena L.	Who Classification of Skin Tumours 4th Edition 2018

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Nº	Publication	Publication Title	Authors	Citation
203	Books/Book Chapters	Combined naevus, including combined BAP1-inactivated naevus / melanocytoma	Wiesner T. Mihm M.C. Jr, Scolyer R.A.	Who Classification of Skin Tumours 4th Edition 2018
204	Books/Book Chapters	Deep penetrating naevus and melanocytoma	Barnhill R.L, Bastian B.C, Gerami P, Magro C, Scolyer R.A.	Who Classification of Skin Tumours 4th Edition 2018
205	Books/Book Chapters	Desmoplastic melanoma	Scolyer R.A, Barnhill R.L, Bastian B.C, Busam K.J, McCarthy S.W.	Who Classification of Skin Tumours 4th Edition 2018
206	Books/Book Chapters	Dysplastic nevi	Elder D.E, Barnhill R.L, Bastian B.C, Duncan L.M, Massi D, Mihm M.C. Jr, Piepkorn M, Rabkin M, Scolyer R.A.	Who Classification of Skin Tumours 4th Edition 2018
207	Books/Book Chapters	Genomic landscape of melanoma	Bastian BC, de la Fouchardiere A, Elder DE, Gerami P, Lazar AJ, Massi D, Nagore E, Scolyer RA, Yun SJ	Who Classification of Skin Tumours 4th Edition 2018
208	Books/Book Chapters	Junctional, compound and dermal naevi	Elder DE, Barnhill R, Duncan LM, Massi D, Mihm M.C. Jr, Piepkorn M, Rabkin M, Scolyer R.A, Wich MR	Who Classification of Skin Tumours 4th Edition 2018
209	Books/Book Chapters	Lentigo maligna melanoma	Elder D.E, Bastian B.C, Kim J, Massi D, Mihm M.C. Jr, Scolyer R.A, Wood B.A.	Who Classification of Skin Tumours 4th Edition 2018
210	Books/Book Chapters	Melanocytic tumour classification and the pathway concept of melanoma pathogenesis	Elder DE, Barnhill R, Bastian BC, Cook MG, de la Fouchardiere A, Gerami P, Lazar AJ, Massi D, Mihm MC, Nagore E, Scolyer R, Yun SJ	Who Classification of Skin Tumours 4th Edition 2018
211	Books/Book Chapters	Melanoma arising in blue naevus	de la Fouchardière A, Scolyer R.A, Calonje E, Fullen D.R, Gerami P, Requena L, Barnhill R.L.	Who Classification of Skin Tumours 4th Edition 2018

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Nº	Publication	Publication Title	Authors	Citation
212	Books/Book Chapters	Squamous cell carcinoma in situ (Bowen disease)	Pulitzer MP, Beer T, Cerio R, Kao GF, Murphy G, Nagoree E, Scolyer RA	Who Classification of Skin Tumours 4th Edition 2018
213	Reports/Guidelines	International Collaboration on Cancer merkel cell carcinoma reporting protocol (RS member of international multidisciplinary expert working group).	Scolyer RA, et al	International Collaboration on Cancer merkel cell carcinoma reporting protocol (RS member of international multidisciplinary expert working group).
214	Reports/Guidelines	Diagnosis and management of idiopathic pulmonary fibrosis: Thoracic Society of Australia and New Zealand and Lung Foundation Australia position statements summary.	Jo HE, Prasad JD, Troy LK, Mahar A, Bleasel J, Ellis SJ, Chambers DC, Holland AE, Lake FR, Keir G, Goh NS, Wilsher M, de Boer S, Moodley Y, Grainge C, Whitford HM, Chapman SA, Reynolds PN, Beatson D, Jones LJ, Hopkins P, Allan HM, et al.	Med J Aust. 2018 Feb 5;208(2):82-88. / pubmed/29385965
215	Editorials/ Commentary	ASO Author Reflections: Long-Term Survival of Patients with Thin (T1) Cutaneous Melanomas.	Thompson JF, Scolyer RA, Lo SN.	Ann Surg Oncol. 2018 Dec; 25(Suppl 3):918-919. /pubmed/30414034
216	Editorials/ Commentary	Challenges and recommendations for minimally resourced biobanks in tertiary Australian hospitals.	Chia N, Wen L, Lyons JG, Elliott M, Lee M, Palme CE, Clark JR, Gupta R.	ANZ J Surg. 2018 Jan;88(1-2):115-116. / pubmed/29392899
217	Editorials/ Commentary	When is surgery for metastatic melanoma still the most appropriate treatment option?	Friedman EB, Ferguson PM, Thompson JF.	Expert Rev Anticancer Ther. 2018 Oct; 18(10):943-945. /pubmed/30071762
218	Editorials/ Commentary	Annual review issue: Endocrine pathology: a pathological, clinical and molecular integration.	J Gill A, A Barletta J	Histopathology. 2018 Jan; 72(1):3. / pubmed/29239039

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Nº	Publication	Publication Title	Authors	Citation
219	Editorials/ Commentary	Inaccurate and fundamentally flawed analysis risks undermining confidence in cervical screening programs.	Smith MA, Brotherton JML, Hammond IG, Anderson L, Simms KT, Saville M, Canfell K.	J Am Soc Cytopathol. 2018 Nov - Dec;7(6):336-338. /pubmed/31043305
220	Editorials/ Commentary	Response to Editorial: The PD-L1 Immunohistochemistry Biomarker: Two Steps Forward, One Step Back?	Hendry S, Cooper WA, Fox SB.	J Thorac Oncol. 2018 Sep;13(9): e185-e186. /pubmed/30166023

grants & scholarships



Title	Funding amount; Type (Years)	Chief Investigator; Other CIs/AIs/Investigators; Collaborating Institutions	Funding Body
Identifying intronic drivers of oral carcinogenesis in young patients with oral cavity squamous cell carcinoma	\$ 25,000.00; Fellowship (2018)	Satgunaseelan L	RCPA
Immune profiling of cutaneous squamous cell carcinoma	\$50,000.00; Research (2018)	Luk P; Palindera U, Clark J, Gupta R	Sydney Catalyst
Improving clinical outcomes of melanoma patients	\$577,188.50; Fellowship (2018 - 2022)	Scolyer R	NHMRC
Integrating research into clinical practice in prostate cancer	\$3,500,000.00; Program Grant (2018 - 2022)	Horvath L; Stricker P, Joshua A, Clark S, Emmett L, Hayes V, Kench J ; Garvan Institute of Medical Research	Cancer Institute NSW
Mutation profiling of oral cancers in young patients	\$25,000.00; Research (2018)	Satgunaseelan L ; Clark J, Gupta R	RCPA
Philanthropic donation	\$130,000.00; Training & Career Development (2018 - 2019)	Killingsworth MC ; T. Cohen Hyams; Ingham Institute	Philanthropic donation

grants & scholarships

Title	Funding amount; Type (Years)	Chief Investigator; Other CIs/AIs/Investigators; Collaborating Institutions	Funding Body
Research Infrastructure Scheme	\$199,950.00; Infrastructure (2018)	Apte M; Shackel N, Hall B, Ling S, de Souza P, Roberts T, Spring K, Becker T, Gosbell I, Jensen S, Kienzle N, Cohen-Hyams T, Killingsworth MC ; University of NSW, Western Sydney University, Ingham Institute, Concert	University of NSW
RNA sequencing of cutaneous SCC	\$ 10,000.00; Research (2018)	Gupta R	ANZ Head & Neck Cancer Society
Transmission Electron Microscopes for Cancer and Translation Research	\$ 650,000.00; Infrastructure (2018)	Robinson P; Mann G, Byrne J, George J, O'Neill G, DeFazio A, Cesare T, Killingsworth MC, Balleine R; Westmead Research Hub, NSWHP Liverpool, Ingham Institute	Cancer Institute of NSW
Understanding the Body's Response to Cancer Invasion and Progression: Towards Assisting the Body's Defence System in Fighting Cancer	\$50,000.00; Research (2018)	Luk P	Sydney Catalyst

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions
Artificial intelligence in assessment of breast sentinel lymph node frozen section specimens	North Sydney	Royal North Shore	Oncology and Carcinogenesis	Anthony Gill	
Centre of Research Excellence in Melanoma: Person, tumour and system-focussed knowledge to drive better outcomes in melanoma	Central Sydney	Royal Prince Alfred	Oncology and Carcinogenesis	Mann G	
Clinicopathological correlation studies in ageing and degeneration of the human retina	South West Sydney	Liverpool	Ophthalmology and Optometry	Murray Killingsworth	Ingham Institute, Sydney University, St Vincents Hospital Sydney,
Fluorescence In Situ Hybridisation (FISH) assay on fresh brain smears - a quick and accurate test to determine 1p/19q co-deletion in gliomas.	Western Sydney	ICPMR	Oncology and Carcinogenesis	Winny Varikatt	Sydney Genome Diagnostics - Cytogenetics, Children's Hospital at Westmead
Hide and seek with hereditary cancer: Improving detection of colorectal cancer patients with a high risk of Lynch syndrome.	Central Sydney	Royal Prince Alfred	Oncology and Carcinogenesis	Taylor N	

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions
Immunohistochemistry of BAP1, BRAFV600E, ARID1A and Mid-Kine in mesothelioma, ovarian cancer, breast cancer, brain tumours, prostate cancer, thyroid cancer, lung cancer and colon cancer	North Sydney	Royal North Shore	Oncology and Carcinogenesis	Anthony Gill	
Integrating research into clinical practice in prostate cancer	Central Sydney	Royal Prince Alfred	Oncology and Carcinogenesis	Horvath LG	
Nanoparticle-based cryogenic correlative light and electron microscopy (CLEM) studies of protein biomarkers and cell dynamics in cancer, inflammation and renal disease.	South West Sydney	Liverpool	Clinical Sciences	Murray Killingsworth	Ingham Institute, University of NSW, Cancer Institute of NSW, Macquarie University
Next-generation sequencing of Merkel Cell Carcinoma	North Sydney	Royal North Shore	Oncology and Carcinogenesis	Anthony Gill	
NSW-China partnership in mucosal melanoma research: integrated genomics for better clinical outcomes	Central Sydney	Royal Prince Alfred	Oncology and Carcinogenesis	Mann G	
Nutrient stress-mediated adaptive responses as novel targets in BRAF mutant melanoma	Central Sydney	Royal Prince Alfred	Oncology and Carcinogenesis	Holst J	

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions
The Role of Tumour-Resident CD8+ T cells in Metastatic Melanoma and Immunotherapy	Central Sydney	Royal Prince Alfred	Oncology and Carcinogenesis	Palendira M	

students

Student Name	Supervisor	Degree Type	End Date	University Enrolled in	Affiliated Institution
Meg Barnet	Wendy Cooper	PhD		UNSW	
Hansol Lee	Scolyer R	PhD		MIA	
Tuba Nur Gide	Scolyer R	PhD		MIA	
Jarem Edwards	Scolyer R	PhD		MIA	
Louise Jackett	Scolyer R	PhD		MIA	
Bruce Ashford	R Gupta	PhD			
Thien Ga Tut	J Shin	PhD		WSU	
Rahmawati Pare	J Shin	PhD		WSU	
Wayne Ng	J Shin	PhD		WSU	
John Turchini	Anthony Gill	PhD	1/01/2021	University of Sydney	University of Sydney/ RNS
Talia Fuchs	Anthony Gill	PhD	1/01/2022	University of Sydney	University of Sydney/ RNS
Tamara Fraser	Anthony Gill	Masters	1/06/2022	University of Technology Sydney	UTS/RNS

journal positions

Name	Journal/Book	Position
Anthony Gill	Endocrine Pathology	Associate Editor
Anthony Gill	Human Pathology	Editorial Board Member
Anthony Gill	Modern Pathology	Editorial Board Member
Anthony Gill	Histopathology	Editorial Board Member
Anthony Gill	World Health Organization (WHO) Blue Book Series: Classification of Tumours fifth edition- GIT tumours	Editorial Board Member
Anthony Gill	World Health Organization (WHO) Blue Book Series: Classification of Tumours Fifth edition - Soft Tissue Tumours	Editorial Board Member
Anthony Gill	World Health Organization (WHO) Blue Book Series: Classification of Tumours fifth edition- Breast Tumours	Editorial Board Member
Anthony Gill	World Health Organization (WHO) Blue Book Series: Classification of Tumours fifth edition- Gynaecological Tumours	Editorial Board Member
James Kench	Pathology	Editorial Board Member
James Kench	Pancreatology	Editorial Board Member
Richard Scolyer	Pathology	Associate Editor
Richard Scolyer	American Journal of Surgical Pathology	Editorial Board Member
Peter Ferguson	Pathology	Editorial Board Member
Richard Scolyer	World Health Organisation Classification of Skin Tumours, WHO Classification of Tumours, 4th Edition, Volume 11, 2018	Editor
Ruta Gupta	Head and Neck Pathology	Editorial Board Member
Ruta Gupta	Advances in Anatomic Pathology	Editorial Board Member
Wendy Cooper	Journal of Thoracic Disease2018 & 2019	Editorial Board Member
Wendy Cooper	Translational Lung Cancer Research 2018 & 2019	Editorial Board Member
Richard Scolyer	Modern Pathology	Editorial Board Member
Richard Scolyer	Histopathology	Editorial Board Member
Richard Scolyer	Melanoma Research	Editorial Board Member

chemistry

Chemical Pathology deals with the entire range of disease. It encompasses detecting changes in a wide range of substances in blood and body fluids (electrolytes, enzymes and proteins) in association with many diseases.

In addition, it involves detecting and measuring tumour (cancer) markers, hormones, poisons and both therapeutic and illicit drugs. Evaluation of new technology and the development of new tests is an ongoing process in this discipline.



Margaret Janu
Clinical Stream Lead

“The Chemical Pathology Clinical Stream embraces the partnership between the clinical and research components of laboratory medicine and is always seeking new opportunities. We see research as pivotal in building knowledge and facilitating learning. The translational aspect of moving biomarker tests from developmental research beginnings into everyday practice enhances our service delivery and supports the health of our community.”

publication in focus

Journal citation - Pregnancy Hypertens. 2018; 12:110-117.

Title - Urinary Angiotensinogen Excretion in Australian Indigenous and non-Indigenous Pregnant Women

Authors - Kirsty G Pringle, Celine Corbisier de Meaultsart, Shane D Sykes, Loretta J Weatherall, Lyniece Keogh, **Don C Clausen**, Gus A Dekker, Roger Smith, Claire T Roberts, Kym M Rae, Eugenie R Lumbers.

Study outcomes/summary

The intrarenal renin-angiotensin system (iRAS) is implicated in the pathogenesis of hypertension, chronic kidney disease and diabetic nephropathy. Urinary angiotensinogen (uAGT) levels reflect the

activity of the iRAS and are altered in women with preeclampsia. Since Indigenous Australians suffer high rates and early onset of renal disease, we hypothesised that Indigenous Australian pregnant women, like non-Indigenous women with pregnancy complications, would have altered uAGT levels.

Non-Indigenous and Indigenous pregnant women with pregnancy complications had evidence of renal dysfunction. In Indigenous women this was sufficiently severe to be associated with elevated urinary nephrin levels. Therefore, suppression of the normal elevated uAGT/ creatinine that occurs in pregnancy is not confined to pregnant women with preeclampsia but may be evidence of subclinical failure of physiological adaptation to pregnancy or underlying renal impairment.

The following is copied from Acknowledgments section in the publication

The authors wish to pay their respects to Elders past and Present, and extend that respect to any Indigenous readers.

The authors of the paper would like to acknowledge the Gomeroi gaaynggal Aboriginal Steering Committee for their ongoing advice for the Gomeroi gaaynggal studies.

Shalem Yiner-Lee Leemaqz has assisted the investigators with software issues related to the dataset.

The authors would like to gratefully recognise the women and children who dedicate thier time to participate in the Gomeroi gaaynggal study.



Angela Pearce

“Research should demonstrate intent to work towards progress in health and wellbeing of the local community, based on the needs of the community. The researchers must show willingness to adjust their research based on the needs, aspirations and values of the community. Potential benefits should be discussed with the community and demonstrate a return or benefit that is be valued by the community.”

publications

Nº	Publication Type	Publication Title	Authors	Citation
1	Original Peer Reviewed	Ideal Cricoid Pressure Is Biomechanically Impossible During Laryngoscopy.	Trethewy CE, Doherty SR, Burrows JM, Clausen D.	Acad Emerg Med. 2018 Jan; 25(1):94-98. / pubmed/28960597
2	Original Peer Reviewed	Clozapine toxicity in a CYP2D6 poor metaboliser: Additive effects of haloperidol and valproate on clozapine metabolism.	Reznik R, Chen RYY, Stanford P.	Australas Psychiatry. 2018 Dec; 26(6):608-611. / pubmed/29737183
3	Original Peer Reviewed	Delivering safe and effective test-result communication, management and follow-up: a mixed-methods study protocol.	Dahm MR, Georgiou A, Westbrook JI, Greenfield D, Horvath AR, Wakefield D, Li L, Hillman K, Bolton P, Brown A, Jones G, Herkes R, Lindeman R, Legg M, Makeham M, Moses D, Badmus D, Campbell C, Hardie RA, Li J, McCaughey E, Sezgin G, et al.	BMJ Open. 2018 Feb 15;8(2): e020235. pubmed/29449297
4	Original Peer Reviewed	Persistent Safety and Efficacy of Evolocumab in Patients with Statin Intolerance: a Subset Analysis of the OSLER Open-Label Extension Studies.	Cho L, Dent R, Stroes ESG, Stein EA, Sullivan D, Ruzza A, Flower A, Somaratne R, Rosenson RS.	Cardiovasc Drugs Ther. 2018 Aug; 32(4):365-372. / pubmed/30073585
5	Original Peer Reviewed	D-Dimer Predicts Long-Term Cause-Specific Mortality, Cardiovascular Events, and Cancer in Patients With Stable Coronary Heart Disease.	Simes J, Robledo KP, White HD, Espinoza D, Stewart RA, Sullivan DR, Zeller T, Hague W, Nestel PJ, Glasziou PP, Keech AC, Elliott J, Blankenberg S, Tonkin AM; LIPID Study Investigators.	Circulation. 2018 Aug 14;138(7):712-723. / pubmed/29367425
6	Original Peer Reviewed	Consistent LDL-C response with evolocumab among patient subgroups in PROFICIO: A pooled analysis of 3146 patients from phase 3 studies.	Stroes E, Robinson JG, Raal FJ, Dufour R, Sullivan D, Kassahun H, Ma Y, Wasserman SM, Koren MJ.	Clin Cardiol. 2018 Oct; 41(10):1328-1335. / pubmed/30120772

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7	Original Peer Reviewed	An evidence- and risk-based approach to a harmonized laboratory alert list in Australia and New Zealand.	Campbell CA, Lam Q, Horvath AR.	Clin Chem Lab Med. 2018 Dec 19;57(1):89-94. / pubmed/29672264
8	Original Peer Reviewed	Fenofibrate decreases plasma ceramide in type 2 diabetes patients: A novel marker of CVD?	Croyal M, Kaabia Z, León L, Ramin-Mangata S, Baty T, Fall F, Billon-Crossouard S, Aguesse A, Hollstein T, Sullivan DR, Nobecourt E, Lambert G, Krempf M.	Diabetes Metab. 2018 Mar; 44(2):143-149. / pubmed/28499696
9	Original Peer Reviewed	A proinflammatory CD4(+) T cell phenotype in gestational diabetes mellitus.	Sheu A, Chan Y, Ferguson A, Bakhtyari MB, Hawke W, White C, Chan YF, Bertolino PJ, Woon HG, Palendira U, Sierro F, Lau SM.	Diabetologia. 2018 Jul;61(7):1633-1643. / pubmed/29691600
10	Original Peer Reviewed	Patient groups, clinicians and healthcare professionals agree - all test results need to be seen, understood and followed up.	Dahm MR, Georgiou A, Herkes R, Brown A, Li J, Lindeman R, Horvath AR, Jones G, Legg M, Li L, Greenfield D, Westbrook JI.	Diagnosis (Berl). 2018 Nov 27;5(4):215-222. / pubmed/30332391
11	Original Peer Reviewed	A high ankle-brachial index is associated with obesity and low serum 25-hydroxyvitamin D in patients with diabetes.	Depczynski B, Young T, White C.	J Clin Transl Endocrinol. 2018 Feb 3; 11:7-10. / pubmed/29725581
12	Original Peer Reviewed	Colchicine Therapy and Plaque Stabilization in Patients With Acute Coronary Syndrome: A CT Coronary Angiography Study.	Vaidya K, Arnott C, Martínez GJ, Ng B, McCormack S, Sullivan DR, Celermajer DS, Patel S.	JACC Cardiovasc Imaging. 2018 Feb; 11(2 Pt 2):305-316. / pubmed/29055633
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Nº	Publication Type	Publication Title	Authors	Citation
14	Original Peer Reviewed	Effect of fenofibrate on uric acid and gout in type 2 diabetes: a post-hoc analysis of the randomised, controlled FIELD study.	Waldman B, Ansquer JC, Sullivan DR, Jenkins AJ, McGill N, Buizen L, Davis TME, Best JD, Li L, Feher MD, Foucher C, Kesaniemi YA, Flack J, d’Emden MC, Scott RS, Hedley J, Gebski V, Keech AC; FIELD investigators.	Lancet Diabetes Endocrinol. 2018 Apr;6(4):310-318. / pubmed/29496472
15	Original Peer Reviewed	Reversible vestibular neuropathy in adult Refsum disease.	Taylor RL, Jankelowitz SK, Young AS, Sullivan D, Halmagyi GM, Welgampola MS.	Neurology. 2018 May 8; 90(19):890-892. / pubmed/29626179
16	Original Peer Reviewed	Non-HDL-cholesterol and apolipoprotein B compared with LDL-cholesterol in atherosclerotic cardiovascular disease risk assessment.	Carr SS, Hooper AJ, Sullivan DR, Burnett JR.	Pathology. 2019 Feb;51(2):148-154. /pubmed/30595507
17	Original Peer Reviewed	Urinary angiotensinogen excretion in Australian Indigenous and non-Indigenous pregnant women.	Pringle KG, de Meaultsart CC, Sykes SD, Weatherall LJ, Keogh L, Clausen DC, Dekker GA, Smith R, Roberts CT, Rae KM, Lumbers ER.	Pregnancy Hypertens. 2018 Apr; 12:110-117. / pubmed/29674190
18	Review Article	PCSK9 (Proprotein Convertase Subtilisin/Kexin 9) Status and Protection Against Ischemic Stroke: PheWAS, TreWAS, and More.	Sullivan D, Bonnitcha P, Spinks C, Keech T.	Circ Genom Precis Med. 2018 Jul;11(7): e002247. / pubmed/29997228

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Nº	Publication Type	Publication Title	Authors	Citation
19	Original Peer Reviewed	Outcome of adult patients with X-linked hypophosphatemia caused by PHEX gene mutations.	Chesher D, Oddy M, Darbar U, Sayal P, Casey A, Ryan A, Sechi A, Simister C, Waters A, Wedatilake Y, Lachmann RH, Murphy E.	Journal of Inherited Metabolic Disease. 2018;41(5):865-876
20	Original Peer Reviewed	Intravenous amino acid therapy for kidney protection in cardiac surgery patients: A pilot randomized controlled trial.	Pu H, Doig GS, Heighes PT, Allingstrup MJ, Wang A, Brereton J,Pollock C, Chesher D, Bellomo R.	J Thorac Cardiovasc Surg. 2018
21	Review Article	Lot-to-lot variation.	Thompson S and Chesher D.	Clinical Biochemist Reviews. 2018;39(ii):51-60.
22	Original	Determination of Vitamin B12 in Equine Urine by Liquid Chromatography-Inductively Coupled-Plasma Mass Spectrometry.	Wenzel R, Major D, Hesp K and Doble P	Journal of Trace Elements in Medicine and Biology. 2018; 50:634-39.
23	Original Peer Reviewed	Equilibrating stable Cd isotopes with acidic soils, Communications in Soil Science and Plant Analysis.	Milham PJ, Wenzel RG, Holford P, Haigh AM, Chaffer K, Hawkins CA, Humphris C, Fabien J and Conroy JP.	Communications in Soil Science and Plant Analysis. 2018;49(20):2497-2506
24	Original Peer Reviewed	Characterization of human monocyte subsets by whole blood flow cytometry analysis.	Rekha Marimuthu, Habib Francis, Suat Dervish, Stephen C.H. Li, Heather Medbury, Helen Williams.	Journal of visualized experiments: JoVE, 140 57941. 17 Oct. 2018.
25	Original Peer Reviewed	Delivering safe and effective test-result communication, management and follow-up: a mixed-methods study protocol.	Dahm MR, Georgiou A, Westbrook JI, Greenfield D, Horvath AR, Wakefield D, Li L, et al.	BMJ Open, 2018; 8: e020235.

publications

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26	Original Peer Reviewed	Clozapine toxicity in a CYP 2D6 poor metaboliser: Additive effects of haloperidol and valproate on clozapine metabolism.	P Stanford, R Reznik, R Chen.	SAGE Journals - Australian Psychiatry 2018;26(6)
27	Original Peer Reviewed	An evidence and risk based approach to a harmonised laboratory alert list in Australia and New Zealand.	Campbell CA, Lam Q, Horvath AR.	Clin Chem Lab Med 2018; 57(1):89-94
28	Original Peer Reviewed	Patient groups, clinicians and healthcare professionals agree – all test results need to be seen, understood and followed up.	Dahm, Maria R., Andrew Georgiou, Robert Herkes, Horvath AR, et al.	Diagnosis (Berl) 2018; 5(4):215-222
29	Books/Book Chapter	Principles and Applications of Clinical Mass Spectrometry: Small Molecules, Peptides, and Pathogens.	Edited by: Nader Rifai, Andrea Rita Horvath and Carl T Wittwer.	Elsevier 2018; pp206
30	Books/Book Chapter	Principles and Applications of Molecular Diagnostics.	Edited by: Nader Rifai, Andrea Rita Horvath and Carl T Wittwer.	Elsevier 2018

total funding
\$ 2,089,334

grants & scholarships

Title	Funding amount; Type (Years)	Chief Investigator; Other CIs/Als/Investigators; Collaborating Institutions	Funding Body
An intervention to improve the detection and management of Familial Hypercholesterolaemia in Primary Care	\$ 2,089,334.00; Program Grant (2018 - 2019)	Sullivan DR; T Brett, D Arnold-Reed, C Hespe, G Watts, A Vickery, I Li, C Heal, G Gill, J Radford	NHMRC

research projects

Title of Research Project	NSWHP Location	Chief Investigator (CI)	Collaborating (partner) Institutes	Funded by	Estimated Start Date	Estimated End Date	Expected Impact
Novel Markers of Diabetes in the FIELD Cohort.	Royal Prince Alfred	David Sullivan	6	NHMRC	1/01/2018	31/12/2019	Developed new diagnostic tools/ therapies

haematology

Haematology is a rapidly developing discipline which deals with many aspects of those diseases which affect the blood such as anaemia, leukemia, lymphoma, and clotting or bleeding disorders.



Elizabeth Tegg
Clinical Stream Lead

“ Research is fundamental to haematology and our stream wishes to promote translational research into improving diagnostic services for all NSW patients. We want to provide an opportunity for ideas to become a reality. ”

publication in focus



Photo - Australian Geographic; Jan 18, 2017

Journal citation - Am J Hematol. 2018;93(7):965-970.

Title - Not as sweet as honey: A rare case of an apparent factor V “inhibitor” in association with bee sting anaphylaxis.

Authors - Elisabeth Farhat, Elizabeth Tegg, Soma Mohammed, Elzbieta Grzechnik, Emmanuel J Favaloro.

Study outcomes/summary

A 25 yo, previously well male, presented with anaphylactic shock following a honeybee sting while gardening at his home in Sydney, Australia. After being stung on the lip by a bee the patient was witnessed, by his partner, to develop rapid facial swelling and erythema before vomiting and collapsing with evidence of respiratory distress. On the arrival of emergency services there was significant facial and airway edema, making intubation difficult. The patient was transferred to our facility (Westmead Hospital) after a period of prolonged hypoxia and hypotension, having received intramuscular and intravenous adrenaline on route to hospital, with minimal effect. A definitive airway was established with endotracheal intubation upon arrival in the Emergency department. Initial hematology review demonstrated a relative polycythemia, leucocytosis, and normal platelet count. Biochemistry showed a severe mixed respiratory and metabolic acidosis with normal renal function and mildly deranged liver function tests. Computer tomography (CT) of the brain showed extensive low density changes in the white matter scattered throughout both cerebral hemispheres, consistent with hypoxic brain injury.

Our case highlights a complex clinical situation where the laboratory finding of a “factor V inhibitor” was entirely unexpected, catching both the clinical and laboratory staff by surprise. It is hoped that the current report, which may reflect a kind of “perfect storm” event, will function as an impetus to further evaluate other pathology associated with insect stings, especially hemostatic abnormalities that occur with envenomation by the honeybee.

Jump online and read the full case report if you find this interesting.

publications

Nº	Publication Type	Publication Title	Authors	Citation
1	Original Peer Reviewed	Pharmacokinetics and Exposure-Response Analyses of Daratumumab in Combination Therapy Regimens for Patients with Multiple Myeloma.	Xu XS, Dimopoulos MA, Sonneveld P, et al.	Adv Ther. 2018; 35(11):1859-1872. doi:10.1007/s12325-018-0815-9
2	Original Peer Reviewed	Not as sweet as honey: A rare case of an apparent factor V “inhibitor” in association with bee sting anaphylaxis.	Farhat E, Tegg E, Mohammed S, Grzechnik E, Favaloro EJ.	Am J Hematol. 2018 Jul; 93(7):965-970. PMID: 29675861
3	Original Peer Reviewed	Best Practice for the Administration of Daratumumab in Multiple Myeloma: Australian Myeloma Nurse Expert Opinion.	King T, Jagger J, Wood J, et al.	Asia Pac J Oncol Nurs. 2018;5(3):270-284. doi: 10.4103/apjon.apjon_9_18
4	Original Peer Reviewed	Oral health and dental morbidity in long-term allogeneic blood and marrow transplant survivors in Australia.	Dyer G, Brice L, Schifter M, Gilroy N, Kabir M, Hertzberg M, Greenwood M, Larsen SR, Moore J, Gottlieb D, Huang G, Hogg M, Brown L, Tan J, Ward C, Kerridge I.	Aust Dent J. 2018 Jun 7. / pubmed/29878377
5	Original Peer Reviewed	A recent review of laboratory monitoring of unfractionated heparin and an investigation into variables affecting the activated partial thromboplastin time (APTT) heparin therapeutic range using different reagents.	Maeder EM, Giannoutsos J, Vanniasinkam T, Favaloro EJ.	Aus J Med Sci. 2018; 39:2-13
6	Original Peer Reviewed	Ultra-Sensitive Droplet Digital PCR for the Assessment of Microchimerism in Cellular Therapies	David Kliman, Gloria Castellano-Gonzalez, Barbara Withers, Janine Street, Elizabeth Tegg, Oksana Mirochnik, Joey Lai, Leighton Clancy, David Gottlieb, Emily Blyth	Biol Blood Marrow Transplant. 2018;24(5):1069-1078. doi: 10.1016/j.bbmt.2017.12.802

publications

Nº	Publication Type	Publication Title	Authors	Citation
7	Original Peer Reviewed	The Believe Trial: Results of a Phase 3, Randomized, Double-Blind, Placebo-Controlled Study of Luspatercept in Adult Beta-Thalassemia Patients Who Require Regular Red Blood Cell (RBC) Transfusions	Maria Domenica Cappellini, Vip Viprakasit, Ali Taher, Pencho Georgiev, Kevin H. M. Kuo, Thomas D. Coates, Ersi Voskaridou, Hong Keng Liew, Idit Pazgal-Kobrowski, Gianluca Forni, Silverio Perrotta, Abderrahim Khelif, Ashutosh Lal, Antonis Kattamis, Efthymia Vlachaki, Raffaella Origa, Yesim Aydinok, Mohamed Bejaoui P. Joy Ho, Lee Ping Chew, Ping Chong Bee, Soo Min Lim, Meng-Yao Lu, Adisak Tantiworawit, Penka Ganeva, Liana Gercheva, Farrukh Shah, Ellis J. Neufeld, Abderrahmane Laadem, Jeevan K. Shetty, Jun Zou, Dimana Miteva, Tatiana Zinger, Peter G. Linde, Matthew L. Sherman, Olivier Hermine, John Porter, Antonio Piga.	Blood (2018) 132 (Supplement 1): 163.
8	Original Peer Reviewed	Risk of recurrent venous thromboembolism according to baseline risk factor profiles.	Prins MH, Lensing AWA, Prandoni P, Wells PS, Verhamme P, Beyer-Westendorf J, Bauersachs R, Bounameaux H, Brighton TA, Cohen AT, Davidson BL, Decousus H, Kakkar AK, van Bellen B, Pap AF, Homering M, Tamm M, Weitz JI.	Blood Adv. 2018 Apr 10;2(7):788-796. /pubmed/29632234

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Nº	Publication Type	Publication Title	Authors	Citation
9	Original Peer Reviewed	Lack of grading agreement among international hemostasis external quality assessment programs.	Olson JD, Jennings I, Meijer P, Bon C, Bonar R, Favalaro EJ, Higgins RA, Keeney M, Mammen J, Marlar RA, Meley R, Nair SC, Nichols WL, Raby A, Reverter JC, Srivastava A, Walker I.	Blood Coagul Fibrinolysis. 2018 Jan;29(1):111-119.PMID: 29232255; PMCID: PMC5794233
10	Original Peer Reviewed	Immune evasion via PD-1/PD-L1 on NK cells and monocyte/macrophages is more prominent in Hodgkin lymphoma than DLBCL.	Vari F, Arpon D, Keane C, Hertzberg MS, Talaulikar D, Jain S, Cui Q, Han E, Tobin J, Bird R, Cross D, Hernandez A, Gould C, Birch S, Gandhi MK.	Blood. 2018 Apr 19;131(16):1809-1819. /pubmed/29449276
11	Original Peer Reviewed	Talaromyces marneffeii and dysplastic neutrophils on blood smear in newly diagnosed HIV.	Othman J, Brown CM.	Blood. 2018;131(2):269. doi:10.1182/blood-2017-10-809285
12	Original Peer Reviewed	Myeloma escape after stem cell transplantation is a consequence of T-cell exhaustion and is prevented by TIGIT blockade [published correction appears in Blood. 2019 Nov 21;134(21):1878].	Minnie SA, Kuns RD, Gartlan KH, et al.	Blood. 2018;132(16):1675-1688. doi:10.1182/blood-2018-01-825240
13	Original Peer Reviewed	Changes to work status and household income of long-term allogeneic blood and marrow transplant survivors in New South Wales, Australia.	Dyer G, Brice L, Gilroy N, Kabir M, Hertzberg M, Greenwood M, Larsen SR, Moore J, Gottlieb D, Huang G, Hogg M, Brown L, Tan J, Ward C, Kerridge I.	Bone Marrow Transplant. 2018 Jul;53(7):926-931. / pubmed/29379170
14	Original Peer Reviewed	Dysregulated IL-18 Is a Key Driver of Immunosuppression and a Possible Therapeutic Target in the Multiple Myeloma Microenvironment.	Nakamura K, Kassem S, Cleyne A, et al.	Cancer Cell. 2018;33(4):634-648.e5. doi: 10.1016/j.ccell.2018.02.007

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Nº	Publication Type	Publication Title	Authors	Citation
15	Original Peer Reviewed	Autologous transplantation versus allogeneic transplantation in patients with follicular lymphoma experiencing early treatment failure.	Smith SM, Godfrey J, Ahn KW, DiGilio A, Ahmed S, Agrawal V, Bachanova V, Bacher U, Bashey A, Bolaños-Meade J, Cairo M, Chen A, Chhabra S, Copelan E, Dahi PB, Aljurf M, Farooq U, Ganguly S, Hertzberg M, Holmberg L, Inwards D, Kanate AS, et al.	Cancer. 2018 Jun 15;124(12):2541-2551. /pubmed/29645093
16	Original Peer Reviewed	Ginseng-Derived Panaxadiol Saponins Promote Hematopoiesis Recovery in Cyclophosphamide-Induced Myelosuppressive Mice: Potential Novel Treatment of Chemotherapy-Induced Cytopenias	Sun X, Zhao YN, Qian S, Gao RL, Yin LM, Wang LP, Chong BH, Zhang SZ	Chin J Integr Med. 2018; 24:200-206 /pubmed/28432529
17	Original Peer Reviewed	Daratumumab plus lenalidomide and dexamethasone versus lenalidomide and dexamethasone in relapsed or refractory multiple myeloma: updated analysis of POLLUX.	Dimopoulos MA, San-Miguel J, Belch A, et al.	Haematologica. 2018;103(12):2088-2096. doi:10.3324/haematol.2018.194282
18	Original Peer Reviewed	CD83 is a new potential biomarker and therapeutic target for Hodgkin lymphoma.	Li Z, Ju X, Lee K, et al.	Haematologica. 2018;103(4):655-665. doi:10.3324/haematol.2017.178384
19	Original Peer Reviewed	Management of pregnancy complications in type 2N von Willebrand disease associated to a novel mutation.	Brennan Y, Favalaro EJ, Curtin J, Curnow J.	Haemophilia. 2018 May;24(3): e148-e152. PMID: 29656540
20	Original Peer Reviewed	Principles of haemophilia care: The Asia-Pacific perspective.	Dunkley S, Lam JCM, John MJ, et al.	Haemophilia. 2018;24(3):366-375. doi:10.1111/hae.13425
21	Original Peer Reviewed	Quantification of NETs-associated Markers by Flow Cytometry and Serum Assays in Patients With Thrombosis and Sepsis	K H Lee, L Cavanaugh, H Leung, F Yan, Z Ahmadi, B H Chong, F Passam	Int J Lab Hematol 2018 40940: 392-399/pubmed/ 29520957

publications

Nº	Publication Type	Publication Title	Authors	Citation
22	Original Peer Reviewed	Quantification of NETs-associated markers by flow cytometry and serum assays in patients with thrombosis and sepsis.	Lee KH, Cavanaugh L, Leung H, Yan F, Ahmadi Z, Chong BH, Passam F.	Int J Lab Hematol. 2018 Aug;40(4):392-399. / pubmed/29520957
23	Original Peer Reviewed	Analytical performance of the new D-dimer and antithrombin assay on Roche cobas t 711 analyzer.	Salvagno GL, Lippi G, Gelati M, Poli G, Favaloro EJ.	Int J Lab Hematol. 2019 Jun;41(3):e54-e56. PMID: 30561892
24	Original Peer Reviewed	Immunochemotherapy With Obinutuzumab or Rituximab for Previously Untreated Follicular Lymphoma in the GALLIUM Study: Influence of Chemotherapy on Efficacy and Safety.	Hiddemann W, Barbui AM, Canales MA, Cannell PK, Collins GP, D'Amico J, Forstpointner R, Herold M, Hertzberg M, Klanova M, Radford J, Seymour JF, Tobinai K, Trotman J, Burciu A, Fingerle-Rowson G, Wolbers M, Nielsen T, Marcus RE.	J Clin Oncol. 2018 Aug 10;36(23):2395-2404. / pubmed/29856692
25	Original Peer Reviewed	Granulocytes Are Unresponsive to IL-6 Due to an Absence of gp130.	Wilkinson AN, Gartlan KH, Kelly G, et al.	J Immunol. 2018;200(10):3547-3555. doi:10.4049/jimmunol.1701191
26	Original Peer Reviewed	Impact of salvage treatment modalities in patients with positive FDG-PET/CT after R-CHOP chemotherapy for aggressive B-cell non-Hodgkin lymphoma.	Chin V, Fulham M, Hertzberg M, Jackson M, Lindeman R, Brighton T, Kidson-Gerber G, Wegner EA, Cheung C, MacCallum S, Williams J, Thompson SR.	J Med Imaging Radiat Oncol. 2018 Jun;62(3):432-439. / pubmed/29577608
27	Original Peer Reviewed	Novel assay demonstrates that coronary artery disease patients have heightened procoagulant platelet response.	Pasalic L, Wing-Lun E, Lau JK, Campbell H, Pennings GJ, Lau E, Connor D, Liang HP, Muller D, Kritharides L, Hogg PJ, Chen VM.	J Thromb Haemost. 2018 Jun;16(6):1198-1210. / pubmed/29569428
28	Original Peer Reviewed	Dark chocolate modulates platelet function with a mechanism mediated by flavan-3-ol metabolites.	Montagnana M, Danese E, Angelino D, Mena P, Rosi A, Benati M, Gelati M, Salvagno GL, Favaloro EJ, Del Rio D, Lippi G.	Medicine (Baltimore). 2018 Dec;97(49): e13432. PMID: 30544424

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29	Original Peer Reviewed	Gene Therapy in Patients With Transfusion-Dependent-Thalassemia	Alexis A Thompson, Mark C Walters, Janet Kwiatkowski, et al.	N Engl J Med. 2018 Apr 19;378(16):1479-1493. / pubmed/29669226
30	Original Peer Reviewed	High-dose intravenous methotrexate with high-flux, extended-hours haemodialysis in treatment of primary central nervous system, post-transplant lymphoproliferative disorder and end-stage kidney disease: A case report.	Yeung J, Vaughan E, Chadban S, Saunders J, Thiagarajah N, Brown C.	Nephrology (Carlton). 2018;23(11):1063-1064. doi:10.1111/nep.13254
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32	Original Peer Reviewed	HIT or miss? A comprehensive contemporary investigation of laboratory tests for heparin induced thrombocytopenia.	Favaloro EJ, McCaughan G, Mohammed S, Lau KKE, Gemmell R, Cavanaugh L, Donikian D, Kondo M, Brighton T, Pasalic L.	Pathology. 2018 Jun;50(4):426-436. /pubmed/29678479
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34	Original Peer Reviewed	An unexpected diagnosis: leukemic presentation of blastic plasmacytoid dendritic cell neoplasm with massive splenomegaly	Richard Blennerhassett, Georgia McCaughan & Elizabeth Tegg	Pathology. 2018;50(7):773-775. doi: 10.1016/j.pathol.2018.05.007
35	Original Peer Reviewed	Time dependent reduction in platelet aggregation using the multiplate analyser and hirudin blood due to platelet clumping.	Chapman K, Favaloro EJ.	Platelets. 2018 May;29(3):305-308. PMID: 29194000

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36	Original Peer Reviewed	An update on quality control for the PFA-100/ PFA-200.	Favaloro EJ, Bonar R.	Platelets. 2018 Sep;29(6):622-627. PMID: 29792545
37	Original Peer Reviewed	Oncogenic JAK2V617F causes PD-L1 expression, mediating immune escape in myeloproliferative neoplasms.	Prestipino A, Emhardt AJ, Aumann K, et al.	Sci Transl Med. 2018;10(429): eaam7729. doi:10.1126/scitranslmed. aam7729
38	Original Peer Reviewed	Differential sensitivity of von Willebrand factor activity assays to reduced VWF molecular weight forms: A large international cross-laboratory study.	Favaloro EJ, Bonar R, Hollestelle MJ, Jennings I, Mohammed S, Meijer P, Woods T, Meiring M.	Thromb Res. 2018 Jun; 166:96-105. PMID: 29727738.
39	Review Article	Emicizumab (ACE910): Clinical background and laboratory assessment of hemophilia A.	Lippi G, Favaloro EJ.	Adv Clin Chem. 2019; 88:151-167. PMID: 30612605
40	Review Article	Laboratory tests for identification or exclusion of heparin induced thrombocytopenia: HIT or miss?	Favaloro EJ.	Am J Hematol. 2018 Feb;93(2):308-314. PMID: 29164662
41	Review Article	Diagnosis and management of von Willebrand disease in Australia	Favaloro EJ, Pasalic L, Curnow J	Ann Blood 2018; 3:31. doi: 10.21037/ aob.2018.03.05
42	Review Article	Anticoagulation therapy in Australia	Favaloro EJ, McCaughan GJ, Mohammed S, Pasalic L	Ann Blood 2018; 3:48 doi: 10.21037/ aob.2018.12.02
43	Review Article	Oral anticoagulants around the world: an updated state-of the art analysis	Lippi G, Mattiuzzi C, Adcock D, Favaloro EJ	Ann Blood 2018; 3:49 doi: 10.21037/ aob.2018.12.04
44	Review Article	e-thrombosis: epidemiology, physiopathology and rationale for preventing computer-related thrombosis.	Lippi G, Mattiuzzi C, Favaloro EJ	Ann Transl Med. 2018 Sep;6(17):344. PMID: 30306083

publications

Nº	Publication Type	Publication Title	Authors	Citation
45	Review Article	Rare forms of von Willebrand disease.	Favaloro EJ	Ann Transl Med. 2018 Sep;6(17):345. PMID: 30306084
46	Review Article	Towards harmonization of external quality assessment/proficiency testing in hemostasis.	Favaloro EJ, Jennings I, Olson J, Van Cott EM, Bonar R, Gosselin R, Meijer P.	Clin Chem Lab Med. 2018 Dec 19;57(1):115-126. PMID: 29668440
47	Review Article	Laboratory hemostasis: from biology to the bench.	Lippi G, Favaloro EJ.	Clin Chem Lab Med. 2018 Jun 27;56(7):1035-1045. PMID: 29455188
48	Review Article	Recent initiatives in harmonization of hemostasis practice.	Favaloro EJ, Gosselin R, Olson J, Jennings I, Lippi G.	Clin Chem Lab Med. 2018 Sep 25;56(10):1608-1619. PMID: 29723153.
49	Review Article	Trenonacog alfa for prophylaxis, on-demand and perioperative management of hemophilia B.	Brennan Y, Curnow J, Favaloro EJ.	Expert Opin Biol Ther. 2018 Jan;18(1):95-100. PMID: 29172774.
50	Review Article	Anticoagulation at the extremes of body weight: choices and dosing.	McCaughan GJB, Favaloro EJ, Pasalic L, Curnow J.	Expert Rev Hematol. 2018 Oct;11(10):817-828. PMID: 30148651
51	Review Article	Preanalytical issues that may cause misdiagnosis in haemophilia and von Willebrand disease.	Favaloro EJ, Lippi G.	Haemophilia. 2018 Mar;24(2):198-210. PMID: 29271545.
52	Review Article	Postanalytical considerations that may improve the diagnosis or exclusion of haemophilia and von Willebrand disease.	Favaloro EJ, Mohammed S, Lippi G.	Haemophilia. 2018 Nov;24(6):849-861. PMID: 30024638
53	Review Article	Hemostasis practice: state-of-the-art	Lippi G, Favaloro EJ	J Lab Precis Med 2018; 3:67 doi: 10.21037/jlpm.2018.07.07
54	Review Article	Venous and Arterial Thromboses: Two Sides of the Same Coin?	Lippi G, Favaloro EJ.	Semin Thromb Hemost. 2018 Apr;44(3):239-248. PMID: 28946150
55	Review Article	Car Travel-Related Thrombosis: Fact or Fiction?	Lippi G, Favaloro EJ	Semin Thromb Hemost. 2018 Jun;44(4):327-333. PMID: 29763962

publications

Nº	Publication Type	Publication Title	Authors	Citation
56	Review Article	Prothrombotic State Induced by Middle-Distance Endurance Exercise in Middle-Aged Athletes.	Lippi G, Salvagno GL, Tarperi C, Gelati M, Montagnana M, Danese E, Festa L, Sanchis-Gomar F, Favaloro EJ, Schena F.	Semin Thromb Hemost. 2018 Nov;44(8):747-755. PMID:30119138
57	Review Article	Sudden Cardiac and Noncardiac Death in Sports: Epidemiology, Causes, Pathogenesis, and Prevention.	Lippi G, Favaloro EJ, Sanchis-Gomar F.	Semin Thromb Hemost. 2018 Nov;44(8):780-786. PMID: 29864776
58	Books/Book Chapters	First-Line Therapy: ATRA-ATO/Reduced Chemotherapy Approach.	Iland H.	Acute Promyelocytic Leukemia. Springer, Cham 2018 doi. org/10.1007/978-3-319-64257-4_9
59	Reports/ Guidelines	American Society of Hematology 2018 Guidelines for Management of Venous Thromboembolism: Heparin-Induced Thrombocytopenia	Cuker A, Arepally GM, Chong BH, Cines DB, et al	Blood Adv. 2018 Nov 27;2(22):3360-3392. /pubmed/30482768
60	Reports/ Guidelines	International Council for Standardization in Haematology (ICSH) Recommendations for Laboratory Measurement of Direct Oral Anticoagulants.	Gosselin RC, Adcock DM, Bates SM, Douxfils J, Favaloro EJ, Gouin-Thibault I, Guillermo C, Kawai Y, Lindhoff-Last E, Kitchen S.	Thromb Haemost. 2018 Mar;118(3):437-450. PMID: 29433148
61	Editorials/ Commentary	Tranexamic acid to prevent post-partum haemorrhage.	Van Der Linde R, Favaloro EJ.	Blood Transfus. 2018 Jul;16(4):321-323. PMID: 29757130
62	Editorials/ Commentary	Haemolysis index for the screening of intravascular haemolysis: a novel diagnostic opportunity?	Lippi G, Favaloro EJ, Franchini M.	Blood Transfus. 2018 Sep;16(5):433-437. PMID: 29757133
63	Editorials/ Commentary	On the complexity of hemostasis and the need for harmonization of test practice.	Favaloro EJ, Lippi G.	Clin Chem Lab Med. 2018 Sep 25;56(10):1568-1574.

publications

Nº	Publication Type	Publication Title	Authors	Citation
64	Editorials/ Commentary	The increasing maturity of the von Willebrand factor collagen binding in von Willebrand disease diagnosis.	Favaloro EJ, Mohammed S, Oliver S.	Haemophilia. 2018 Jan;24(1):20-23. PMID: 29168609
65	Editorials/ Commentary	2018 Eberhard F. Mammen Award Announcements: Part I-Most Popular Articles.	Favaloro EJ.	Semin Thromb Hemost. 2018 Apr;44(3):185-192.
66	Editorials/ Commentary	Editorial Compilation V.	Favaloro EJ, Lippi G.	Semin Thromb Hemost. 2018 Apr;44(3):193-196. PMID: 29631294
67	Editorials/ Commentary	Commentary: Controversies in Thrombosis and Hemostasis Part 1-Hematidrosis: “Blood, Sweat and Fears” or A “Pigment of Fertile Imaginations?”.	Favaloro EJ, Lippi G.	Semin Thromb Hemost. 2018 Apr;44(3):296-297. PMID: 29220852
68	Editorials/ Commentary	2017 Eberhard F. Mammen Award Announcements: Part II-Young Investigator Awards.	Favaloro EJ.	Semin Thromb Hemost. 2018 Mar;44(2):81-88. PMID: 29471578



grants & scholarships

Title	Funding amount; Type (Years)	Chief Investigator; Other CIs/AIs/Investigators; Collaborating Institutions	Funding Body
Evaluating in vivo AZA incorporation in mononuclear cells following Vidaza or CC486	\$ 1,932,000.00; Research (2018)	Pimanda J ; Hertzberg M	Celgene Incorporated
Blockade of platelet-neutrophil interactions for Type 1 Diabetes prevention and treatment	\$ 1,500,000.00; Research (2018 - 2019)	Chong BH ; Simeonovic C, Parish C, Coupland L, Gardiner E, Lafferty A; ANU	Juvenile Diabetes Foundation, Australia
Impact of gut microbiota metabolites on the development of thrombosis, thrombocytopenia and increased cardiovascular risk in autoimmune/ inflammatory disorders and infection: the role of trimethylamine N-oxide-induced platelet hyperactivity	\$ 150,000.00; Research (2018 - 2019)	BH Chong ; E Al Omar, J Perdomo, H Leung; UNSW	St George Sutherland Med Res Foundation
Investigating the molecular basis for drug resistance and disease relapse in myelodysplastic syndromes	\$ 722,557.00; Research (2018 - 2020)	Pimanda J ; Vassiliou G, Gottgens B, Wong J, Pickford R, Mackenzie K, Campbell P	NHMRC
Molecular and Functional Characterisation of Induced Multipotent Stem Cells	\$ 694,428.00; Research (2018 - 2020)	Pimanda J ; Chandrakanthan V, Hardeman E	NHMRC

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Analysis of thrombus aspirate from patients undergoing percutaneous coronary intervention for acute coronary syndrome.	Western Sydney	ICPMR; #Westmead	Cardiorespiratory Medicine and Haematology	James Chong	WSLHD, WIMR	ICPMR ROPP
Blockade of platelet-neutrophil interaction in the prevention and treatment of Juvenile Type 1 Diabetes	South Eastern Sydney	St George	N/A	Simeonovic C(CIA), Parish C, BH Chong and others	ANU	Australian Juvenile Diabetes Research Foundation Innovative Award
CRISTAL: a cluster randomised, crossover, non-inferiority trial of aspirin compared to low molecular weight heparin for venous thromboembolism prophylaxis in hip or knee arthroplasty, a registry nested study.	South West Sydney	Liverpool	N/A	Professor Ian Harris(CIA), Beng H Chong and others	Liverpool Hospital & others	Medical Research Future Fund

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Impact of gut microbiota metabolites on the development of thrombosis, thrombocytopenia and increased cardiovascular risk in autoimmune/ inflammatory disorders and infection: the role of trimethylamine N-oxide-induced platelet hyperactivity	South Eastern Sydney	St George	N/A	Beng H Chong (CIA)	UNSW	St George Sutherland Medical Research Foundation
ITP: International ITP registry	South Eastern Sydney	St George	N/A	Beng H Chong (CIA)	Multiple hospitals in Japan, Korea, Singapore, Turkey, South America, Taiwan, Thailand, Malaysia, etc	Industry grant: GSK/ Novartis
Pathogenesis of Heparin-induced thrombocytopenia and thrombosis(HIT) and drug development for its treatment	South Eastern Sydney	St George	N/A	Beng H Chong (CIA)	ANU, VCCRI, Westmead Research Institute	NHMRC project & program grant
Procoagulant platelets in patients with bacteraemia or suspected sepsis - a pilot study.	Western Sydney	ICPMR; #Westmead	Cardiorespiratory Medicine and Haematology	Leonardo Pasalic	WSLHD, Concord Hospital, ANZAC research institute	ICPMR ROPP
Quality improvements in haemostasis testing associated with investigations into bleeding or thrombosis.	Western Sydney	ICPMR; #Westmead	Cardiorespiratory Medicine and Haematology	Favaloro, Emmanuel Jonathon		N/A

students

Student Name	Supervisor	Degree Type	End Date	University Enrolled in	Affiliated Institution
Roslyn Bonar	Favaloro Emmanuel Jonathon	PhD	1/10/2017	University of Sydney	
Ellena Maeder	Favaloro Emmanuel Jonathon	Masters	1/10/2017	Charles Sturt University	
Bianca Sanderson	Elizabeth Tegg	Masters	31/12/2018	Charles Sturt	
Monique Mintern	Elizabeth Tegg	Masters	31/07/2019	Charles Sturt	
Joshua Ryan	Elizabeth Tegg	PhD	31/12/2019	University of Sydney	
Susan Oliver	Emmanuel Favaloro	Masters	30/06/2020	Charles Sturt	
Shiying Zheng	Beng H Chong	PhD	31/12/2021	University of New South Wales	St George Hospital

journal positions

Name	Journal/Book	Position	Therapeutic Area
Emmanuel J Favaloro	Seminars in Thrombosis and Hemostasis	Editor in Chief	Cardiorespiratory Medicine and Haematology
Emmanuel J Favaloro	Journal of Thrombosis and Haemostasis	Member of Editorial Board	Cardiorespiratory Medicine and Haematology
Emmanuel J Favaloro	Haemophilia	Member of Editorial Board	Cardiorespiratory Medicine and Haematology
Emmanuel J Favaloro	Pathology	Member of Editorial Board	Cardiorespiratory Medicine and Haematology
Emmanuel J Favaloro	Autoimmunity Highlights	Member of Editorial Board	Cardiorespiratory Medicine and Haematology
Emmanuel J Favaloro	Clinical Chemistry and Laboratory Medicine	Member of Editorial Board	Cardiorespiratory Medicine and Haematology
Emmanuel J Favaloro	Journal of Laboratory and Precision Medicine	Member of Editorial Board	Cardiorespiratory Medicine and Haematology
Emmanuel J Favaloro	Expert Review of Hematology	Member of Editorial Board	Cardiorespiratory Medicine and Haematology
Leonardo Pasalic	Seminars in Thrombosis and Hemostasis	Associate Editor	Cardiorespiratory Medicine and Haematology
Emmanuel J Favaloro	Thrombosis Research	Editorial Board Member	Cardiorespiratory Medicine and Haematology



immunology

Immunology is a specialty which often involves both laboratory medicine (the testing of specimens collected from patients) and clinical practice (interviewing, examining and advising patients about clinical problems).

In the laboratory, immunologists are involved in the design, performance and supervision of tests of the immune system.



Theo de Malmanche
Clinical Stream Lead

“ Finding and sharing discoveries is the only way to move science fiction into fact, and to make things better. Every member of our team wants to help sick people, and research shows us the best way to do this. ”

publication in focus

Strengths and limitations of this study

- ▶ The description of multiple processes used to manage test results across seven adult hospitals and a children’s hospital will provide rich and unique comparative evidence about hospitals of different size, geographical location (rural, regional and metropolitan) and specialty.
- ▶ We will use an innovative data-driven approach to generate evidence about the impact of critical results notification thresholds on test-result follow-up processes and outcomes across different patient groups.
- ▶ We will ensure consumer engagement across all stages of the study from inception to dissemination, and capture experiences and opinions of a range of health consumer representatives and front-line patients.
- ▶ Our quantitative analysis is limited to data related to patients admitted to hospital. We will be able to monitor readmissions across participating hospital sites. There are some consequences of failure to follow-up test results (eg, mortality after discharge or readmission to hospitals not involved in the study) that we will not be able to measure.
- ▶ Qualitative evaluation methods are often conducted with smaller samples which means that findings may not be readily generalisable to larger populations. Nevertheless, qualitative research findings will provide context-rich insights that can expand the scientific knowledge base. Our mixed-methods approach allows for triangulation and draws on the strengths of qualitative and quantitative approaches.

Journal citation - BMJ Open 2018;8: e020235.

Title - Delivering safe and effective test-result communication, management and follow-up: a mixed-methods study protocol.

Authors - Maria R Dahm, Andrew Georgiou, Johanna I Westbrook, David Greenfield, **Andrea R Horvath, Denis Wakefield**, Ling Li, Ken Hillman, Patrick Bolton, Anthony Brown, Graham Jones, Robert Herkes, Robert Lindeman, Michael Legg, Meredith Makeham, Daniel Moses, Dauda Badmus, **Craig Campbell**, Rae-Anne Hardie, Julie Li, Euan McCaughey, Gorkem Sezgin, Judith Thomas and Nasir Wabe.

Study outcome/summary

The failure to follow-up pathology and medical imaging test results poses patient-safety risks which threaten the effectiveness, quality and safety of patient care.

This convergent mixed-methods project triangulates three multistage studies at seven adult hospitals and one paediatric hospital in Australia.

(1) improve the effectiveness and safety of test-result management through the establishment of

clear governance processes of communication, responsibility and accountability (qualitative research approach including semistructured interviews);

(2) harness health information technology (IT) to inform and monitor test-result management (controlled before and after study across three emergency departments);

(3) enhance the contribution of consumers to the establishment of safe and effective test-result management systems (consumer-driven approach, including semistructured interviews, consumer-reference groups and community forums).

This convergent mixed-methods project triangulates three multistage studies at seven adult hospitals and one paediatric hospital in Australia.

publications

Nº	Publication Type	Publication Title	Authors	Citation
1	Original Peer Reviewed	Native and synthetic scaffolds for limbal epithelial stem cell transplantation.	Nguyen KN, Bobba S, Richardson A, Park M, Watson SL, Wakefield D, Di Girolamo N.	Acta Biomater. 2018 Jan; 65:21-35. / pubmed/29107055
2	Original Peer Reviewed	Delivering safe and effective test-result communication, management and follow-up: a mixed-methods study protocol.	Dahm MR, Georgiou A, Westbrook JI, Greenfield D, Horvath AR, Wakefield D, Li L, Hillman K, Bolton P, Brown A, Jones G, Herkes R, Lindeman R, Legg M, Makeham M, Moses D, Badmus D, Campbell C, Hardie RA, Li J, McCaughey E, Sezgin G, et al.	BMJ Open. 2018 Feb 15;8(2): e020235. / pubmed/29449297
3	Original Peer Reviewed	Adalimumab for the treatment of refractory active and inactive non-infectious uveitis.	Lee JT, Yates WB, Rogers S, Wakefield D, McCluskey P, Lim LL.	Br J Ophthalmol. 2018 Dec;102(12):1672-1678. /pubmed/29459430
4	Original Peer Reviewed	Incidence, clinical features and diagnosis of cicatrising conjunctivitis in Australia and New Zealand.	Bobba S, Devlin C, Di Girolamo N, Wakefield D, McCluskey P, Chan E, Daniell M, Watson S.	Eye (Lond). 2018 Oct;32(10):1636-1643. /pubmed/29921954
5	Original Peer Reviewed	A Meta-Analysis of Genome-Wide Association Studies of Growth Differentiation Factor-15 Concentration in Blood.	Jiang J, Thalamuthu A, Ho JE, Mahajan A, Ek WE, Brown DA, Breit SN, Wang TJ, Gyllensten U, Chen MH, Enroth S, Januzzi JL Jr, Lind L, Armstrong NJ, Kwok JB, Schofield PR, Wen W, Trollor JN, Johansson Å..., Morris AP, Vasani RS, Sachdev PS, et al.	Front Genet. 2018 Mar 23; 9:97. / pubmed/29628937
6	Original Peer Reviewed	Treatment with the TGF-β superfamily cytokine MIC-1/GDF15 reduces the adiposity and corrects the metabolic dysfunction of mice with diet-induced obesity.	Tsai VW, Zhang HP, Manandhar R, Lee-Ng KKM, Lebhar H, Marquis CP, Husaini Y, Sainsbury A, Brown DA, Breit SN.	Int J Obes (Lond). 2018 Mar;42(3):561-571. / pubmed/29026214
7	Original Peer Reviewed	Sarcoidosis: a state of the art review from the Thoracic Society of Australia and New Zealand.	Ahmadzai H, Huang S, Steinfort C, Markos J, Allen RK, Wakefield D, Wilsher M, Thomas PS.	Med J Aust. 2018 Jun 18;208(11):499-504. / pubmed/29719195

total funding
\$ 1,039,000

grants & scholarships

Title	Funding amount; Type (Years)	Chief Investigator; Other CIs/AIs/Investigators; Collaborating Institutions	Funding Body
Jerry Koutts Scholarship	\$ 12,000.00: Research (2018 - 2019)	Jiang J; Lin MW, Brown D ; ICPMR, Westmead	ICPMR ROPP
MIC-1 in Neuroinflammation	\$ 1,000,000.00; Research (2018 - 2021)	Brown D; Breit S , Hart P; WIMR SVH	NHMRC
Research Training Program Stipend Scholarship	\$ 27,000; Research (2018 - 2019)	Jiang J; Lin MW, Brown D ; ICPMR, Westmead	University of Sydney

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Funded by
Biologic drug levels and antibodies	South West Sydney	Liverpool	Immunology	Catherine Toong	
Macrophage Inhibitory Cytokine-1 in neuroinflammation	Western Sydney	ICPMR; #Westmead	Neurosciences	Prof David Brown	NHMRC
Macrophage inhibitory cytokine-1 in spinal cord injury	Western Sydney	ICPMR; #Westmead	Neurosciences	Prof David Brown	ICPMR ROPP
MIS in spinal cord injury	Western Sydney	ICPMR; #Westmead	Neurosciences	Prof David Brown	ICPMR ROPP
Novel diagnostic approaches to autoimmune encephalitis	Western Sydney	ICPMR; #Westmead	Neurosciences	Dr Ming-Wei Lin	N/A

students

Student Name	Supervisor	Degree Type	End Date	University Enrolled in	Affiliated Institution
Jocelyn Jlang	Prof David Brown	Masters	21/02/2019	USyd	
Conor Finmore	Prof David Brown	Hons	1/12/2020	Sydney	WIMR
Jonathon Emerson	Prof David Brown	MPhil	14/02/2021	Sydney	ICPMR WIMR

journal positions

Name	Journal/Book	Position	Therapeutic Area
Prof David Alexander Brown	PLOS 1	Academic Editor	Clinical Sciences
Prof David Alexander Brown	Neurology Psychiatry and Brain Research	Section Editor	Clinical Sciences

microbiology

Microbiology deals with diseases caused by infectious agents such as bacteria, viruses, fungi and parasites.

Advances in technology and molecular medicine in the last few years means we can diagnose both new and “old” diseases quicker. Clinical aspects involve control of outbreaks of infectious disease and dealing with the problems of infections caused by antibiotic-resistant bacteria.



Sharon Chen
Clinical Stream Lead

“The changing landscape and technological advances in microbiology lend themselves to essential synergies between research and translation of such into routine diagnostics. Research is pivotal in providing best practice service delivery to our people.”

publication in focus

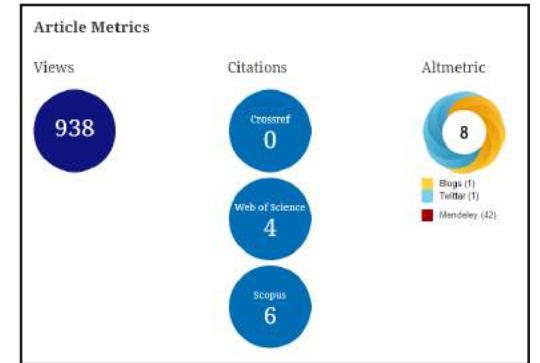
Journal citation Expert Rev Mol Diagn. 2018;18(1):75-83.
Title Point-of-care diagnostics for respiratory viral infections.
Authors Kerri Basile, Jen Kok and **Dominic E Dwyer**.
Study outcome

Successful treatment outcomes for viral respiratory tract infections presenting from primary health care to quaternary hospitals will only be achieved with rapid, sensitive and specific identification of pathogens to allow effective pathogen-specific antiviral therapy and infection control measures.

This review aims to explore the different point-of-care tests currently available to diagnose viral respiratory tract infections, discuss the advantages and limitations of point-of-care testing, and provide insights into the future of point-of-care tests. The following databases were searched: Medline (January 1996 to 30 September 2017) and Embase (1988 to 30 September 2017), using the following keywords: ‘point of care’, ‘respiratory virus’, ‘influenza’, ‘RSV’, ‘diagnostics’, ‘nucleic acid test’ and ‘PCR’.

Viral respiratory tract infections cause significant morbidity and mortality worldwide, and point-of-care tests are facilitating the rapid identification of the pathogen responsible given the similarities in clinical presentation.

As the clinical presentation of vRTIs can be similar, laboratory confirmation is important. Traditional testing methods have substantially improved, and pathogen-specific antivirals will require the identification of the underlying etiologic agent in a timely fashion. Future technological advances will no doubt improve the performance of POC tests and further data from randomized controlled trials are awaited on the clinical and financial impact of POC tests in the management of patients with acute respiratory illness.



publications

Nº	Publication Type	Publication Title	Authors	Citation
1	Original Peer Reviewed	214. Antimicrobial Usage and Outcomes following Laboratory Suppression of Antimicrobial Susceptibility Results for Pseudomonas aeruginosa in Sputum Cultures	Kwee Chin Liew, Oliver Evans, Erica Wales, Peter Newton, Spiros Miyakis	Open Forum Infect Dis. 2018 Nov; 5(Suppl 1): S92–S93 doi.org/10.1093/ofid/ofy210.226
2	Original Peer Reviewed	A simplified and rapid method for the direct identification of microorganisms in positive BacT/ALERT blood culture bottles using MALDI-TOF MS.	Mclver CJ, Er N, Mukerjee C, Tokis S, Taylor P.	Pathology. 2018 Oct;50(6):676-679. / pubmed/30145071
3	Original Peer Reviewed	Advances in Clinical Sample Preparation for Identification and Characterization of Bacterial Pathogens Using Metagenomics.	Bachmann NL, Rockett RJ, Timms VJ, Sintchenko V.	Front Public Health. 2018 Dec 12; 6:363. / pubmed/30619804
4	Original Peer Reviewed	Amplification and next generation sequencing of near full-length human enteroviruses for identification and characterisation from clinical samples.	Isaacs SR, Kim KW, Cheng JX, Bull RA, Stelzer-Braid S, Luciani F, Rawlinson WD, Craig ME.	Sci Rep. 2018 Aug 8;8(1):11889./ pubmed/30089864
5	Original Peer Reviewed	Arboviruses in pregnancy: consequences of maternal and fetal infection.	Rawlinson W	Microbiology Australia 2018 April 6; online http://microbiology.publish.csiro.au/?paper=MA18028
6	Original Peer Reviewed	Australian rubella serosurvey 2012-2013: On track for elimination?	Edirisuriya C, Beard FH, Hendry AJ, Dey A, Gidding HF, Hueston L, Dwyer DE, Wood JG, Macartney KK, McIntyre PB.	Vaccine. 2018 May 11;36(20):2794-2798. / pubmed/29661586

publications

Nº	Publication Type	Publication Title	Authors	Citation
7	Original Peer Reviewed	Azithromycin-resistant Neisseria gonorrhoeae spreading amongst men who have sex with men (MSM) and heterosexuals in New South Wales, Australia, 2017.	Whiley DM, Kundu RL, Jennison AV, Buckley C, Limnios A, Hogan T, Enriquez R, El Nasser J, George CR, Lahra MM.	J Antimicrob Chemother. 2018 May 1;73(5):1242-1246. /pubmed/29373697
8	Original Peer Reviewed	Burkholderia lata Infections from Intrinsically Contaminated Chlorhexidine Mouthwash, Australia, 2016.	Leong LEX, Lagana D, Carter GP, Wang Q, Smith K, Stinear TP, Shaw D, Sintchenko V, Wesselingh SL, Bastian I, Rogers GB.	Emerg Infect Dis. 2018 Nov;24(11):2109-2111./pubmed/30334703
9	Original Peer Reviewed	Carbapenem sparing in the management of post-transrectal prostate biopsy bacteraemia.	Trad MA, Materne M, Reynolds G, Yao J, Miyakis S, Skyring T, Newton P.	ANZ J Surg. 2019 Jul;89(7-8):935-939. / pubmed/31272128
10	Original Peer Reviewed	Cluster of invasive Mycobacteria chimaera infections following cardiac surgery demonstrating novel clinical features and risks of aortic valve replacement.	Overton K, Mennon V, Mothobi N, Neild B, Martinez E, Masters J, Grant P, Akhunji Z, Su WY, Torda A, Whyte CM, Lloyd A, Weatherall C, Hofmeyr A, Foo H, Brookes K, Marriott D, Sintchenko V, Clezy K, Konecny P, Post JJ.	Intern Med J. 2018 Dec;48(12):1514-1520. / pubmed/30517986
11	Original Peer Reviewed	Comparison of the Whole Cell Proteome and Secretome of Epidemic Bordetella pertussis Strains From the 2008-2012 Australian Epidemic Under Sulfate-Modulating Conditions.	Luu LDW, Octavia S, Zhong L, Raftery MJ, Sintchenko V, Lan R.	Front Microbiol. 2018 Nov 27; 9:2851. / pubmed/30538686
12	Original Peer Reviewed	Cooperative Recognition of Internationally Disseminated Ceftriaxone-Resistant Neisseria gonorrhoeae Strain.	Lahra MM, Martin I, Demczuk W, Jennison AV, Lee KI, Nakayama SI, Lefebvre B, Longtin J, Ward A, Mulvey MR, Wi T, Ohnishi M, Whiley D.	Emerg Infect Dis. 2018 Apr;24(4). / pubmed/29553335

publications

Nº	Publication Type	Publication Title	Authors	Citation
13	Original Peer Reviewed	Declining measles antibodies in the era of elimination: Australia's experience.	Gidding HF, Quinn HE, Hueston L, Dwyer DE, McIntyre PB.	Vaccine. 2018 Jan 25;36(4):507-513. / pubmed/29269156
14	Original Peer Reviewed	Detection and incidence of Bordetella holmesii in respiratory specimens from patients with pertussis-like symptoms in New South Wales, Australia.	Fong W, Timms V, Holmes N, Sintchenko V.	Pathology. 2018 Apr;50(3):322-326. / pubmed/29455870
15	Original Peer Reviewed	Direct Detection of penA Gene Associated with Ceftriaxone-Resistant Neisseria gonorrhoeae FC428 Strain by Using PCR.	Whiley DM, Mhango L, Jennison AV, Nimmo G, Lahra MM.	Emerg Infect Dis. 2018 Aug;24(8):1573-1575. /pubmed/30016236
16	Original Peer Reviewed	Effect of Piperacillin-Tazobactam vs Meropenem on 30-Day Mortality for Patients With E coli or Klebsiella pneumoniae Bloodstream Infection and Ceftriaxone Resistance: A Randomized Clinical Trial.	Harris PNA, Tambyah PA, Lye DC, Mo Y, Lee TH, Yilmaz M, Alenazi TH, Arabi Y, Falcone M, Bassetti M, Righi E, Rogers BA, Kanj S, Bhally H, Iredell J, Mendelson M, Boyles TH, Looke D, Miyakis S, Walls G, Al Khamis M, Zikri A, et al.	JAMA. 2018 Sep 11;320(10):984-994. Erratum in: JAMA. 2019 Jun 18;321(23):2370./pubmed/30208454
17	Original Peer Reviewed	Emerging recombinant noroviruses identified by clinical and waste water screening.	Lun JH, Hewitt J, Sitabkhan A, Eden JS, Enosi Tuipulotu D, Netzler NE, Morrell L, Merif J, Jones R, Huang B, Warrilow D, Ressler KA, Ferson MJ, Dwyer DE, Kok J, Rawlinson WD, Deere D, Crosbie ND, White PA.	Emerg Microbes Infect. 2018 Mar 29;7(1):50. /pubmed/29593246
18	Original Peer Reviewed	Evolution of human respiratory syncytial virus (RSV) over multiple seasons in New South Wales, Australia.	Di Giallonardo F, Kok J, Fernandez M, Carter I, Geoghegan JL, Dwyer DE, Holmes EC, Eden J-S.	Viruses 2018; 10(9).

publications

Nº	Publication Type	Publication Title	Authors	Citation
19	Original Peer Reviewed	Fulminant subacute sclerosing panencephalitis: Not only a disease of the past.	Chan DL, Young H, Palasanthiran P, Rawlinson W, Gray P, Andrews PI.	J Paediatr Child Health. 2018 Nov;54(11):1264-1267. / pubmed/29923642
20	Original Peer Reviewed	Genetic characterisation of Neisseria gonorrhoeae resistant to both ceftriaxone and azithromycin.	Whiley DM, Jennison A, Pearson J, Lahra MM.	Lancet Infect Dis. 2018 Jul;18(7):717-718. /pubmed/29976521
21	Original Peer Reviewed	Genome Sequencing Links Persistent Outbreak of Legionellosis in Sydney (New South Wales, Australia) to an Emerging Clone of Legionella pneumophila Sequence Type 211.	Timms VJ, Rockett R, Bachmann NL, Martinez E, Wang Q, Chen SC, Jeoffreys N, Howard PJ, Smith A, Adamson S, Gilmour R, Sheppeard V, Sintchenko V.	Appl Environ Microbiol. 2018 Feb 14;84(5). /pubmed/29247056
22	Original Peer Reviewed	Genome-wide analysis of Streptococcus pneumoniae serogroup 19 in the decade after the introduction of pneumococcal conjugate vaccines in Australia.	Rockett RJ, Oftadeh S, Bachmann NL, Timms VJ, Kong F, Gilbert GL, Sintchenko V.	Sci Rep. 2018 Nov 16;8(1):16969. / pubmed/30446692
23	Original Peer Reviewed	Genome-wide comparison of Corynebacterium diphtheriae isolates from Australia identifies differences in the Pan-genomes between respiratory and cutaneous strains.	Timms VJ, Nguyen T, Crighton T, Yuen M, Sintchenko V.	BMC Genomics. 2018 Dec 4;19(1):869. / pubmed/30509172
24	Original Peer Reviewed	Gut Microbiome Analysis Identifies Potential Etiological Factors in Acute Gastroenteritis.	Castañó-Rodríguez N, Underwood AP, Merif J, Riordan SM, Rawlinson WD, Mitchell HM, Kaakoush NO.	Infect Immun. 2018 Jun 21;86(7). / pubmed/29685983

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25	Original Peer Reviewed	Hep573 Study: A randomised, double-blind, placebocontrolled trial of silymarin alone and combined with antioxidants to improve liver function and quality of life in people with chronic hepatitis C.	Salmond SJ, George J, Strasser SI, Byth K, Rawlinson B, Mori TA, Croft KD, Adams LA and Batey RG.	Aus J Herb Naturop Med 2018 Jun; 31(2)
26	Original Peer Reviewed	Human cytomegalovirus utilises cellular dual-specificity tyrosine phosphorylation-regulated kinases during placental replication.	Hamilton ST, Hutterer C, Egilmezer E, Steingruber M, Milbradt J, Marschall M, Rawlinson WD.	Placenta. 2018 Dec;72-73:10-19. / pubmed/30501876
27	Original Peer Reviewed	Hydrological features and the ecological niches of mammalian hosts delineate elevated risk for Ross River virus epidemics in anthropogenic landscapes in Australia.	Walsh MG, Webb C.	Parasit Vectors. 2018 Mar 20;11(1):192. / pubmed/29554980
28	Original Peer Reviewed	Incorporating Whole-Genome Sequencing into Public Health Surveillance: Lessons from Prospective Sequencing of Salmonella Typhimurium in Australia.	Ford L, Carter GP, Wang Q, Seemann T, Sintchenko V, Glass K, Williamson DA, Howard P, Valcanis M, Castillo CFS, Sait M, Howden BP, Kirk MD.	Foodborne Pathog Dis. 2018 Mar;15(3):161-167. /pubmed/29336594
29	Original Peer Reviewed	Influence of fecal collection conditions and 16S rRNA gene sequencing at two centers on human gut microbiota analysis.	Penington JS, Penno MAS, Ngui KM, Ajami NJ, Roth-Schulze AJ, Wilcox SA, Bandala-Sanchez E, Wentworth JM, Barry SC, Brown CY, Couper JJ, Petrosino JF, Papenfuss AT, Harrison LC; ENDIA Study Group*..	Sci Rep. 2018 Mar 12;8(1):4386. / pubmed/29531234

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30	Original Peer Reviewed	Mosquito excreta: a sample type with many applications for the investigation of Ross River virus and West Nile virus ecology	Ramirez A.L., Hall-Mendelin S., Doggett S.L., Hewitson G.R., McMahon J.L., Ritchie S.A. and van den Hurk A.	PLOS Neglected Diseases doi. org/10.1371/journal.pntd.0006771
31	Original Peer Reviewed	Multidrug-Resistant Salmonella enterica 4, [5],12: i: - Sequence Type 34, New South Wales, Australia, 2016-2017.	Arnott A, Wang Q, Bachmann N, Sadsad R, Biswas C, Sotomayor C, Howard P, Rockett R, Wiklendt A, Iredell JR, Sintchenko V.	Emerg Infect Dis. 2018 Apr;24(4):751-753. /pubmed/29553318
32	Original Peer Reviewed	Multiresistant E. Coli Urine Infections in Children: A Case-Control Study	Gayathri Raman, Brendan McMullan, Peter Taylor, Kylie-Ann Mallitt, Sean E Kennedy.	Arch Dis Child, 2018. Apr;103(4):336-340./pubmed/28899877
33	Original Peer Reviewed	Mutations associated with in vitro resistance to bedaquiline in Mycobacterium tuberculosis isolates in Australia.	Martinez E, Hennessy D, Jelfs P, Crighton T, Chen SC, Sintchenko V.	Tuberculosis (Edinb). 2018 Jul; 111:31-34. / pubmed/30029911
34	Original Peer Reviewed	Mycobacterium tuberculosis Drug Resistance and Transmission among Human Immunodeficiency Virus-Infected Patients in Ho Chi Minh City, Vietnam.	Mai TQ, Martinez E, Menon R, Van Anh NT, Hien NT, Marais BJ, Sintchenko V.	Am J Trop Med Hyg. 2018 Dec;99(6):1397-1406. / pubmed/30382014
35	Original Peer Reviewed	Neonates with congenital Cytomegalovirus and hearing loss identified via the universal newborn hearing screening program.	Rawlinson WD, Palasanthiran P, Hall B, Al Yazidi L, Cannon MJ, Cottier C, van Zuylen WJ, Wilkinson M.	J Clin Virol. 2018 May; 102:110-115. / pubmed/29571077
36	Original Peer Reviewed	New genotypes of Liao ning virus (LNV) in Australia exhibit an insect-specific phenotype.	Prow NA, Mah MG, Deearain JM, Warrilow D, Colmant AMG, O'Brien CA, Harrison JJ, McLean BJ, Hewlett EK, Piyasena TBH, Hall-Mendelin S, van den Hurk AF, Watterson D, Huang B, Schulz BL, Webb CE, Johansen CA, Chow WK, Hobson-Peters J, Cazier C, Coffey LL, Faddy HM, et al.	J Gen Virol. 2018 Apr;99(4):596-609. / pubmed/29533743

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37	Original Peer Reviewed	New Record of Wyeomyia mitchellii (Diptera: Culicidae) on Guam, United States.	Vajda EA, Webb CE, Toi C, Clancy JC, Perez Cruz J, Garcia J, Baradi C.	J Med Entomol. 2018 Feb 28;55(2):477-480. /pubmed/29228245
38	Original Peer Reviewed	Novel cytomegalovirus-inhibitory compounds of the class pyrrolopyridines show a complex pattern of target binding that suggests an unusual mechanism of antiviral activity.	Hahn F, Hutterer C, Henry C, Hamilton ST, Strojan H, Kraut A, Schulte U, Schätz M, Kohrt S, Wangen C, Pfizer J, Couto Y, Rawlinson WD, Strobl S, Marschall M.	Antiviral Res. 2018 Nov; 159:84-94. /pubmed/30268914
39	Original Peer Reviewed	Novel multiplex PCR assay for identification and subtyping of enteroinvasive Escherichia coli and differentiation from Shigella based on target genes selected by comparative genomics.	Dhakal R, Wang Q, Lan R, Howard P, Sintchenko V.	J Med Microbiol. 2018 Sep;67(9):1257-1264./pubmed/29969087
40	Original Peer Reviewed	Novel Salmonella enterica Serovar Typhimurium Genotype Levels as Herald of Seasonal Salmonellosis Epidemics.	Sotomayor C, Wang Q, Arnott A, Howard P, Hope K, Lan R, Sintchenko V.	Emerg Infect Dis. 2018 Jun;24(6):1079-1082. /pubmed/29774859
41	Original Peer Reviewed	Periodontal pathogens in the placenta and membranes in term and preterm birth.	McCuaig R, Wong D, Gardiner FW, Rawlinson W, Dahlstrom JE, Robson S.	Placenta. 2018 Aug; 68:40-43. /pubmed/30055668

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42	Original Peer Reviewed	Prediction of Susceptibility to First-Line Tuberculosis Drugs by DNA Sequencing.	CRyPTIC Consortium and the 100,000 Genomes Project., Allix-Béguec C, Arandjelovic I, Bi L, Beckert P, Bonnet M, Bradley P, Cabibbe AM, Cancino-Muñoz I, Caulfield MJ, Chaiprasert A, Cirillo DM, Clifton DA, Comas I, Crook DW, De Filippo MR, de Neeling H, Diel R, Drobniewski FA, Faksri K, Farhat MR, Fleming J, et al.	N Engl J Med. 2018 Oct 11;379(15):1403-1415. /pubmed/30280646
43	Original Peer Reviewed	Proficiency testing for the detection of Middle East respiratory syndrome coronavirus demonstrates global capacity to detect Middle East respiratory syndrome coronavirus.	Theis T, Lau KA, Gray JL, Oxenford CJ, Walker GJ, Rawlinson WD.	J Med Virol. 2018 Dec;90(12):1827-1833. /pubmed/30016543
44	Original Peer Reviewed	Proteomic Adaptation of Australian Epidemic Bordetella pertussis.	Luu LDW, Octavia S, Zhong L, Raftery MJ, Sintchenko V, Lan R.	Proteomics. 2018 Apr;18(8): e1700237. /pubmed/29464899
45	Original Peer Reviewed	Recognition, treatment, and sequelae of congenital cytomegalovirus in Australia: An observational study.	Bartlett AW, Hall BM, Palasanthiran P, McMullan B, Shand AW, Rawlinson WD.	J Clin Virol. 2018 Nov; 108:121-125. /pubmed/30300787
46	Original Peer Reviewed	Recombinant GII.P16/GII.4 Sydney 2012 Was the Dominant Norovirus Identified in Australia and New Zealand in 2017.	Lun JH, Hewitt J, Yan GJH, Enosi Tuipulotu D, Rawlinson WD, White PA.	Viruses. 2018 Oct 9;10(10). /pubmed/30304780
47	Original Peer Reviewed	Recurrence of tuberculosis in a low-incidence setting: a retrospective cross-sectional study augmented by whole genome sequencing.	Parvaresh L, Crichton T, Martinez E, Bustamante A, Chen S, Sintchenko V.	BMC Infect Dis. 2018 Jun 7;18(1):265. /pubmed/29879906

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48	Original Peer Reviewed	Relentless spread and adaptation of non-typeable vanA vancomycin-resistant Enterococcus faecium: a genome-wide investigation.	van Hal SJ, Beukers AG, Timms VJ, Ellem JA, Taylor P, Maley MW, Newton PJ, Ferguson JK, Lee A, Chen SC, Sintchenko V.	J Antimicrob Chemother. 2018 Jun 1;73(6):1487-1491. /pubmed/29566173
49	Original Peer Reviewed	Retrospective use of whole genome sequencing to better understand an outbreak of Salmonella enterica serovar Mbandaka in New South Wales, Australia.	Lindsay C, Flint J, Lilly K, Hope K, Wang Q, Howard P, Sintchenko V, Durrheim DN.	Western Pac Surveill Response J. 2018 Apr 23;9(2):20-25. /pubmed/30057854
50	Original Peer Reviewed	Salmonella enterica Serovar Typhi: An Unusual Cause of Infective Endocarditis.	Robson C, O'Sullivan MVN, Sivagnanam S.	Trop Med Infect Dis. 2018 Mar 16;3(1). /pubmed/30274432
51	Original Peer Reviewed	Seroepidemiology of Parechovirus A3 Neutralizing Antibodies, Australia, the Netherlands, and United States.	Karelehto E, Brouwer L, Benschop K, Kok J, Basile K, McMullan B, Rawlinson W, Druce J, Nicholson S, Selvarangan R, Harrison C, Lankachandra K, van Eijk H, Koen G, de Jong M, Pajkrt D, Wolthers KC.	Emerg Infect Dis. 2019 Jan; 25(1):148-152. /pubmed/30561318
52	Original Peer Reviewed	Seven Salmonella Typhimurium Outbreaks in Australia Linked by Trace-Back and Whole Genome Sequencing.	Ford L, Wang Q, Stafford R, Ressler KA, Norton S, Shadbolt C, Hope K, Franklin N, Krsteski R, Carswell A, Carter GP, Seemann T, Howard P, Valcanis M, Castillo CFS, Bates J, Glass K, Williamson DA, Sintchenko V, Howden BP, Kirk MD.	Foodborne Pathog Dis. 2018 May; 15(5):285-292. /pubmed/29638170
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54	Original Peer Reviewed	Smoking and accelerated lung function decline in HIV-positive individuals: a secondary analysis of the START Pulmonary Substudy.	MacDonald DM, Melzer AC, Collins G, Avihingsanon A, Crothers K, Ingraham NE, Mugerwa H, Ristola M, Shuter J, and Kunisaki KM for the INSIGHT START Pulmonary Substudy Group (includes Dwyer D).	JAcq Imm Def Synd 2018; 79: e85-e92.
55	Original Peer Reviewed	Sustained multimodal antimicrobial stewardship in an Australian tertiary intensive care unit from 2008-2015: an interrupted time-series analysis.	Adhikari S, Piza M, Taylor P, Deshpande K, Lam D, Konecny P.	Int J Antimicrob Agents. 2018 Apr; 51(4):620-628. /pubmed/29410029
56	Original Peer Reviewed	Systematic review of the impact of point-of-care testing for influenza on the outcomes of patients with acute respiratory tract infection.	Egilmezer E, Walker GJ, Bakthavathsalam P, Peterson JR, Gooding JJ, Rawlinson W, Stelzer-Braid S.	Rev Med Virol. 2018 Sep; 28(5):e1995. /pubmed/30101552
57	Original Peer Reviewed	The association between acute flaccid myelitis (AFM) and Enterovirus D68 (EV-D68) - what is the evidence for causation?	Dyda A, Stelzer-Braid S, Adam D, Chughtai AA, MacIntyre CR.	Euro Surveill. 2018 Jan;23(3). /pubmed/29386095
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60	Original Peer Reviewed	Treatment for pharyngeal gonorrhoea under threat.	Regan DG, Hui BB, Wood JG, Fifer H, Lahra MM, Whitley DM.	Lancet Infect Dis. 2018 Nov; 18(11):1175-1177. /pubmed/30507396

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61	Original Peer Reviewed	Use of whole genome sequencing to investigate an increase in Neisseria gonorrhoeae infection among women in urban areas of Australia.	Buckley C, Forde BM, Trembizki E, Lahra MM, Beatson SA, Whiley DM.	Sci Rep. 2018 Jan 24;8(1):1503. / pubmed/29367612
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63	Original Peer Reviewed	Week 96 results of the randomized, multicentre Maraviroc Switch (MARCH) study.	Pett SL, Amin J, Horban A, Andrade-Villanueva J, Losso M, Porteiro N, Madero JS, Belloso W, Tu E, Silk D, Kelleher A, Harrigan R, Clark A, Sugiura W, Wolff M, Gill J, Gatell J, Clarke A, Ruxrungtham K, Prazuck T, Kaiser R, Woolley I, et al.	HIV Med. 2018 Jan;19(1):65-71. / pubmed/28703491
64	Original Peer Reviewed	Whole Genome Sequencing of Australian Candida glabrata Isolates Reveals Genetic Diversity and Novel Sequence Types.	Biswas C, Marcelino VR, Van Hal S, Halliday C, Martinez E, Wang Q, Kidd S, Kennedy K, Marriott D, Morrissey CO, Arthur I, Weeks K, Slavin MA, Sorrell TC, Sintchenko V, Meyer W, Chen SC.	Front Microbiol. 2018 Dec 3; 9:2946. Erratum in: Front Microbiol. 2019 Sep 27; 10:2218./pubmed/30559734
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66	Review Articles	Hearing and neurodevelopmental outcomes for children with asymptomatic congenital cytomegalovirus infection: A systematic review.	Bartlett AW, McMullan B, Rawlinson WD, Palasanthiran P.	Rev Med Virol. 2017 Sep 6. / pubmed/28876493
67	Review Articles	HIV-1 subtype diversity, transmitted drug resistance and phylogenetics in Australia	Pinto AN, Hawke K, Castley A, Chibo D, Giallonardo FD, Cooper C, Sawleshwarkar S, Kelleher A and Dwyer DE	Future Virology. 2018 Jul 11; 13(8) doi:10.2217/fvl-2018-0031.
68	Review Articles	Maternal virus infections in pregnancy and type 1 diabetes in their offspring: Systematic review and meta-analysis of observational studies.	Allen DW, Kim KW, Rawlinson WD, Craig ME.	Rev Med Virol. 2018 May;28(3): e1974. / pubmed/29569297
69	Review Articles	Point-of-care diagnostics for respiratory viral infections.	Basile K, Kok J, Dwyer DE.	Expert Rev Mol Diagn. 2018 Jan;18(1):75-83. /pubmed/29251007
70	Review Articles	Systematic review of ganciclovir pharmacodynamics during the prevention of cytomegalovirus infection in adult solid organ transplant recipients. Reviews of Medical Virology e2023:1-11, https://doi.org/10.1002/rmv.2023	Wong DD, van Zuylen WJ, Craig ME, Rawlinson WD	Reviews of Medical Virology e2023:1-11 doi.org/10.1002/rmv.2023
71	Review Articles	The impact of influenza virus infection in pregnancy.	Somerville LK, Basile K, Dwyer DE, Kok J.	Future Microbiol. 2018 Feb; 13:263-274. / pubmed/29320882
72	Review Articles	Your number's up!	Doggett S.L.	Mosquito Bites, 13(1):24-27.

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73	Book Chapter	Advances in the Biology and Management of Modern Bed Bugs.	Doggett S.L., Miller D., and Lee C-Y.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK. www.abmmbb.com
74	Book Chapter	Chapter 1b. Bed Bugs in Popular Culture.	Doggett S.L. and Cain D.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
75	Book Chapter	Chapter 2e. The Global Bed Bug Resurgence Across the World; Australia.	Doggett S.L. and Cains T.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
76	Book Chapter	Chapter 3a. Bed Bug Impacts – Dermatological & Immunology.	Hwang S., Doggett S.L. and Fernández-Peñas P.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
77	Book Chapter	Chapter 3b. Bed Bug Impacts – Infectious Diseases.	Doggett S.L.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
78	Book Chapter	Chapter 3d. Bed Bug Impacts – Miscellaneous Health Impacts.	Doggett S.L.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
79	Book Chapter	Chapter 3e. Bed Bug Fiscal Impacts.	Doggett S.L., Miller D.M., and Vale K.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.

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80	Book Chapter	Chapter 5ai. Bed Bug Management; Industry Standards – Australia.	Doggett S.L.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
81	Book Chapter	Chapter 5h. Bed Bug Management – Chemical Control.	Lee C-Y, Miller D.M. and Doggett S.L.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
82	Book Chapter	Chapter 5i. Limitations in Bed Bug Management Technologies and Novel Technologies.	Doggett S.L. and Feldlaufer M.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
83	Book Chapter	Chapter 6e. Bed Bug Control in Specific Situations – Health Care Facilities.	Doggett, S.L.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
84	Book Chapter	Chapter 7c. Bed Bugs and the Law – Australia.	Cains T., Lilly, D. and Doggett S.L.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
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86	Book Chapter	Introduction – Advances in the Biology and Management of Modern Bed Bugs.	Doggett S.L., Miller D., and Lee C-Y.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK.
87	Reports/ Guidelines	Australian Gonococcal Surveillance Programme Annual Report, 2016.	Lahra MM, Enriquez R.	Commun Dis Intell (2018). 2018;42. / pubmed/30626307

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89	Reports/ Guidelines	The NSW Arbovirus Surveillance and Mosquito Monitoring Program. 2017-2018	Doggett S, Haniotis J, Clancy J, Webb C, Toi C and Hueston L, McIntyre L, Lim H, Dwyer DE.	Annual Report. September 2018.
90	Reports/ Guidelines	Weekly update for 12/Jan/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
91	Reports/ Guidelines	Weekly update for 16/Feb/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
92	Reports/ Guidelines	Weekly update for 16/Mar/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
93	Reports/ Guidelines	Weekly update for 19/Jan/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
94	Reports/ Guidelines	Weekly update for 2/Feb/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
95	Reports/ Guidelines	Weekly update for 2/Mar/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
96	Reports/ Guidelines	Weekly update for 23/Feb/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
97	Reports/ Guidelines	Weekly update for 23/Mar/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
98	Reports/ Guidelines	Weekly update for 26/Jan/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.

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100	Reports/ Guidelines	Weekly update for 5/Jan/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
101	Reports/ Guidelines	Weekly update for 9/Feb/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
102	Reports/ Guidelines	Weekly update for 9/Mar/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
103	Reports/ Guidelines	Weekly Update. 13/Apr/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
104	Reports/ Guidelines	Weekly Update. 20/Apr/2018	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
105	Reports/ Guidelines	Weekly Update. 27/Apr/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
106	Reports/ Guidelines	Weekly Update. 4/May/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
107	Reports/ Guidelines	Weekly Update. 6/Apr/2018.	Doggett S.L.	NSW Arbovirus Surveillance & Mosquito Monitoring Program 2017-2018.
108	Editorials/ Commentary	China does it differently	Doggett S.L.	Pest, Oct/Nov (59):34-35.
109	Editorials/ Commentary	Advances in the Biology and Management of Modern Bed Bugs – a new text.	Doggett S.L., Miller D.M. and Lee C.Y.	Mosquito Bites. 2018 12(2): 20-25

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110	Editorials/ Commentary	Bed bugs: tips & tricks.	Doggett S.L.	The Executive Housekeeper. 2018 22(1): 16-17
111	Editorials/ Commentary	Can citizen science help stop mosquito-borne disease outbreaks?	Webb C.E.	Mosquito Management and Research, 7 February 2018 https://cameronwebb.wordpress.com/2018/02/07/can-citizen-science-help-stop-mosquito-borne-disease-outbreaks/
112	Editorials/ Commentary	Mosquitoes and Mosquito-borne Diseases in Australia, 2017-2018; New South Wales	Doggett S.L.	Mosquito Bites
113	Editorials/ Commentary	Mosquitoes and Mosquito-borne Diseases in Australia, July to December 2017; New South Wales.	Doggett S.L.	Mosquito Bites. 2018 12(2): 33-34
114	Editorials/ Commentary	Sniffing out a solution for bed bugs... literally.	Clarke M. and Doggett S.L.	Accomnews, 27/Feb/2018 https://www.accomnews.com.au/2018/02/sniffing-out-a-solution-for-bed-bugs-literally
115	Editorials/ Commentary	This is why you won't be able to swat that fly.	Webb C.E. and Lessard B.	The Conversation, 7 February 2018 https://theconversation.com/this-is-why-you-wont-be-able-to-swat-that-fly-89755
116	Editorials/ Commentary	Ticks – the BBQ stopper.	Doggett S.L.	Professional Pest Manager. 2018 Apr/ May: 40-41
117	Editorials/ Commentary	What can I eat to stop mosquitoes biting me?	Webb C.E.	The Conversation, 5 January 2018 https://theconversation.com/what-can-i-eat-to-stop-mosquitoes-biting-me-87178

grants & scholarships



Title	Funding amount; Type (Years)	Chief Investigator; Other CIs/Als/Investigators; Collaborating Institutions	Funding Body
Assessment of mosquito mitigation strategies, Ballina Shire Council	\$500.00; Research (2018)	Webb C; Department of Medical Entomology, NSWHP-ICPMR, Westmead Hospital, Westmead, Australia	Ballina Shire Council
Assessment of spatial mosquito repellent technologies	\$2,800.00; Research (2018)	Webb C; Department of Medical Entomology, NSWHP-ICPMR, Westmead Hospital, Westmead, Australia	Ryobi International; Competitive Advantage
CRISTAL: Cluster randomised trial of aspirin versus low molecular weight heparin for venous thromboembolism prophylaxis in joint replacement surgery, a registry-nested study	\$ 910,700.00; Research (2018 - 2021)	IA Harris; SE Graves, RB Adie, V Sidhu, JM Naylor, I Ackerman, BH Chong, N Pratt, R de Steier, A Harris	Medical Research Future Fund NHMRC

grants & scholarships

Title	Funding amount; Type (Years)	Chief Investigator; Other CIs/AIs/Investigators; Collaborating Institutions	Funding Body
Development of an innovative and rapid point-of-care testing method for respiratory viruses	\$ 30,000.00; Research (2018)	Rawlinson W ; Stelzer-Braid, Bakthavathsalam, Gooding, Jenkins, Jaffe, Ferson, Homaira	SPHERE RSEOH CAG Seed Grant
Development of guidelines to inform urban development in QLD to reducign biting insect risk	\$ 2,800.00; Research (2018)	Webb C ; Department of Medical Entomology, NSWHP-ICPMR, Westmead Hospital, Westmead, Australia	QLD Health
Development of mosquito management plan for Surf Coast Shire and City of Greater Geelong, Victoria	\$ 32,000.00; Research (2018 - 2019)	Webb C ; DHHS Victorian Government; City of Greater Geelong; Surf Coast Shire; Department of Medical Entomology, NSWHP-ICPMR, Westmead Hospital, Westmead, Australia	Victorian Government
Management of mosquitoes associated with urban estuarine and freshwater wetlands at Sydney Olympic Park	\$ 48,400.00; Program (2018 - 2019)	Webb C ; Department of Medical Entomology, NSWHP-ICPMR, Westmead Hospital, Westmead, Australia	NSW Government
Mosquito Risk Assessment Saltwater Development, Kempsey, NSW	\$ 6,400.00; Research (2018)	Webb C ; Department of Medical Entomology, NSWHP-ICPMR, Westmead Hospital, Westmead, Australia	de Groot & Benson Pty Ltd

grants & scholarships

Title	Funding amount; Type (Years)	Chief Investigator; Other CIs/AIs/Investigators; Collaborating Institutions	Funding Body
Mosquito Risk Assessment, Banyah Hill, Ballina, NSW	\$ 800.00; Research (2018)	Webb C ; Department of Medical Entomology, NSWHP-ICPMR, Westmead Hospital, Westmead, Australia	Planners North; Mosquito Consulting Services Pty Ltd
Phase 1 trial of HLA-DR matched thrid party donor-derived fungus-specific cytotoxic T lymphocytes in patients with invasive fungal disease post-allogeneic stem cell transplantation	\$ 450,000.00; Research (2018 - 2020)	Gottlieb D; Chen SCA , Tania Sorrell, Monica Slavin, David Ritchie, Agnes Yong, Chen SCA; Westmead Hospital, Royal Melbourne Hospital, Royal Adelaide Hospital	NSW Cancer Council
PipPop: The Culex pipiens Population Genomics Project	\$; Research (2018 - 2019)	Webb C ; Princeton University	
Reducing pertissis burden by optimizing molecular epidemiological surveillance of epidemic Bordetella pertussis in Australia	\$ 480,531.00; Research (2018 - 2020)	Ruiting Lan; Sintchenko V , Moi F	NHMRC
Therapeutic strategies for the prevention and treatment of CMV	\$ 24,000.00; Research (2018 - 2019)	Hamilton; Marschall	Thrasher Research Fund

(NSWHP staff)

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
A Phase 2b, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Antiviral Activity, Clinical Outcomes, Safety, Tolerability, and Pharmacokinetics of Orally Administered ALS-008176 Regimens in Adult Subjects Hospitalized with Respiratory Syncytial Virus	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Dr Jen Kok		
A Phase 3, placebo-controlled, randomized, observer-blinded study to evaluate the efficacy, safety, and tolerability of a clostridium difficile vaccine in adults 50 years of age and older	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Dr Matthew O’Sullivan		
An international observational study to characterize adults who are hospitalised with complications of influenza	Western Sydney	ICPMR; c#Westmead	Medical Microbiology	Dominic Dwyer	INSIGHT Network (International)	National Institute of Allergy and Infectious Diseases, National Institutes of Health (USA)

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Antifungal drug use with a focus on invasive candidiasis	Central Sydney; #Western Sydney	ICPMR; #Royal Prince Alfred; #Westmead	Medical Microbiology	Sharon Chen	Monica Slavin (Peter MacCallum Cancer Centre), Debbie Marriott (SYDPATH), Sarah Kidd (SA Pathology), Ian Arthur (PathWest, WA), Karina Kennedy (ACT Health), Orla Morrissey (Alfred Health), Christopher Heath (Royal Perth Hospital)	University of Sydney
Anti-Influenza Hyperimmune Intravenous Immunoglobulin Clinical Outcome Study (FLU-IVG)	Western Sydney	ICPMR; #Westmead	Clinical Sciences	Dominic Dwyer	INSIGHT Network (International)	National Institute of Allergy and Infectious Diseases, National Institutes of Health (USA)

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Antimicrobial usage and outcomes following laboratory suppression of antimicrobial susceptibility results for Pseudomonas aeruginosa in sputum cultures	Illawarra Shoalhaven		Medical Microbiology			N/A
Are inflammatory mediators involved in the aetiology of refractory Detrusor Overactivity?	Illawarra Shoalhaven		Medical Microbiology			Illawarra Health and Medical Research Institute
Assessment of urban wetlands management for frog conservation and mosquito risk	Western Sydney	ICPMR; #Westmead	Public Health and Health Services	Jayne Hanford	Sydney University, Department of Medical Entomology; NSWHP-ICPMR, Westmead Hospital, Westmead, Australia	

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Australia's most wanted: assessment and characterisation of Australia's leading arthritic arboviruses, Ross River virus and Barmah Forest virus	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Alyssa Pyke	Pathology Queensland; The Peter Doherty Institute for Infection and Immunity; Griffith University; University of Queensland; PathWest Microbiology; University of Western Australia; Department of Economic Development, Jobs, Transport and Resources; Sullivan and Nicolaides	Qld Health
Australian Collaboration for Chlamydia Enhanced Sentinel Surveillance (ACCESS) Sexual Health Services Network	Western Sydney	ICPMR; #Westmead	Clinical Sciences	Dr. Matthew O'Sullivan	Kirby Institute (UNSW)	N/A
Biobanking	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Dominic Dwyer	NSWHP-ICPMR, NCIRS	NSW Health Statewide Biobank Grant

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Burden of Clostridium difficile infections in eastern Australia: epidemiology and ribotypes	Western Sydney	ICPMR; #Westmead	Clinical Sciences	Chen SCA	QMIR, Peter MacCallum Cancer Centre, Monash Medical Centre, WSLHD	MSD Australia
Clinical Trials Unit (CTU) in Virology, Microbiology and Infectious Diseases	Western Sydney	ICPMR; #Westmead	Clinical Sciences	Kok, J	Centre for Infectious Diseases and Microbiology, Westmead Hospital	Multiple
Cluster-randomised controlled trial to test the effectiveness of facemasks in preventing respiratory virus infection among Hajj pilgrims (NPRP 6-1505-3-358)	Western Sydney	ICPMR; #Westmead	Public Health and Health Services	Alkhal A	NSWHP-ICPMR, National Centre for Immunisation Research and Surveillance (NCIRS), Children's Hospital Westmead, Multiple (International).	Qatar National Research Fund
Co-infection and metabolomics laboratory studies for INSIGHT FLU003 influenza study	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Dominic Dwyer	INSIGHT Network (International)	National Cancer Institute, National Institutes of Health (USA)

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Data integration for the Australasian Society for Infectious Disease (ASID) Clinical Research Network (CRN) Staphylococcus aureus Special Interest Group	Western Sydney	ICPMR; #Westmead	Clinical Sciences	Dr. Matthew O'Sullivan	Barwon Health (Victoria)	N/A
Development of a high throughput sequencing pipeline to enhance the response to outbreaks of Ross River virus in Australia	Western Sydney	ICPMR; #Westmead	Medical Microbiology	John-Sebastian Eden	The Westmead Institute for Medical Research, Sydney University	N/A
Early diagnosis and treatment of infections in patients with haematologic malignancies: examining novel diagnostics of pathogen multiplex PCR and FDG-PET imaging	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Monica Slavin	Primary Institution: Peter MacCallum Cancer Centre; ICPMR, Westmead Hospital; Austin Health	NHMRC
Global collaborative project on the efficacy of permethrin impregnated encasements for the control of bed bugs	Western Sydney	ICPMR; #Westmead	Public Health and Health Services	Stephen Doggett	University Sains Malaysia; Bed Bug Foundation (UK); Ecolab Pest Elimination (Australia); Virginia Tech (USA)	N/A

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Influenza-like illness in pregnancy	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Dominic Dwyer* and Jen Kok	University of Sydney Summer Scholarship Program, University of New South Wales	University of Sydney Summer Scholarship Program
Investigation of frog feeding biting flies as vectors of amphibian pathogens (pilot study)	Western Sydney	ICPMR; #Westmead	Public Health and Health Services	Cameron Webb	Department of Medical Entomology, NSWHP-ICPMR, Westmead Hospital, Westmead, Australia	
Mapping the profile of antibiotic resistance in Salmonella infections	Illawarra Shoalhaven	Wollongong	Medical Microbiology	A/Prof M Sanderson-Smith and Dr P Newton		Illawarra Health and Medical Research Institute
Molecular epidemiology of vanA Vancomycin-resistant Enterococcus faecium in NSW	South West Sydney; #Illawarra Shoalhaven; #Hunter New England; #Central Sydney; #South Eastern Sydney; #Western Sydney	ICPMR; #John Hunter; #Liverpool; #Royal Prince Alfred; #St George; # Westmead; #Wollongong	Medical Microbiology	TBA		N/A

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
MRSA transmission in ICU and Burns Unit: binary typing as a preliminary tool to select isolates for WGS	Central Sydney; #Western Sydney	Concord; #ICPMR; #Westmead	Medical Microbiology	Genevieve McKew		N/A
Novel mosquito-borne virus discovery in Eastern Australia	Western Sydney	ICPMR; #Westmead	Public Health and Health Services	Natalie Prow	University of Qld, Qld Health , Department of Medical Entomology, NSWHP-ICPMR, Westmead Hospital, Westmead, Australia	University of Qld
Penicillin Susceptible Staphylococcus aureus (PSSA) Bacteraemia: Epidemiology and Treatment Outcomes	Illawarra Shoalhaven		Medical Microbiology			N/A
Phase 2 randomised placebo-controlled double-blind study to assess the efficacy and safety of Tecfidera in patients with Amyotrophic Lateral Sclerosis - TEALS Study	Western Sydney	ICPMR; #Westmead	Neurosciences	Stephen Vucic		

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Phylogeny of HRV and RSV Dynamics and genomics of human rhinovirus and respiratory syncytial virus infections in hospitalized and community patients at Westmead Hospital	Western Sydney	ICPMR; #Westmead	Clinical Sciences	Dr. Jen Kok	WIMR, MBI, University of Sydney	N/A
Polyomaviruses in transplantation	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Dominic Dwyer	University of Sydney, Westmead Hospital Department of Renal Medicine, Viet Duc Hospital (Vietnam)	University of Sydney, Westmead Hospital, Viet Duc Hospital (Vietnam)
Preventing Infection in Haematology Malignancy and Bone Marrow Transplantation	North Sydney; #Western Sydney	ICPMR; #Royal North Shore; #Westmead	Clinical Sciences	Slavin MA, Chen SCA, Kong DC	Monash University (PhD project), RNSH, Peter MacCallum Cancer Centre	N/A
RCT of combination therapy versus monotherapy for MRSA bloodstream infections.	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Dr Matthew O’Sullivan	Menzies School of Health Research, Royal Darwin Hospital	NHMRC
Registry of real world intravenous posaconazole use in New South Wales	Western Sydney	ICPMR; #Westmead	Clinical Sciences	Chen SCA	St. Vincent’s Hospital, Sydney	MSD Australia

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Research and development of molecular diagnostics	South Eastern Sydney	St George	Medical Microbiology	A/Prof Peter C. Taylor	Nil	Trust funds
Seroepidemiology of human parechovirus 3 among children and adults in Europe, Australia and North-America	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Dr Jen Kok	AMI, Netherlands	
Strategic Timing of Antiretroviral Treatment	Central Sydney; #South Eastern Sydney; #Western Sydney	ICPMR; #Westmead	Clinical Sciences	Dominic Dwyer	INSIGHT Network (International)	National Institute of Allergy and Infectious Diseases, National Institutes of Health (USA)

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
The Australian Molecular Epidemiology Network-HIV (AMEN-HIV)	Central Sydney; #Western Sydney	ICPMR; #Royal Prince Alfred; #Westmead	Public Health and Health Services	Alison Castley	Royal Perth Hospital, Western Australia; NSWHP-ICPMR; Western Sydney Sexual Health Centre, Western Sydney Local Health District; NSWHP-RPAH; SydPath; Pathology Queensland; South Australia Pathology; Royal Adelaide Hospital, South Australia; Victorian Infectious Diseases Reference Laboratory, Doherty Institute, Victoria; The Kirby Institute for Infection and Immunity in Society, University of New South Wales.	n/a

research projects

Title of Research Project	Clinical Operation Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
The distribution of Strongyloides stercoralis in Australia	Western Sydney	ICPMR; #Westmead	Medical Microbiology	Dr. Matthew Watts	La Trobe University (Victoria)	N/A
Tick pathogen investigations	Western Sydney	ICPMR; #Westmead	Public Health and Health Services	John-Sebastian Eden	The Westmead Institute for Medical Research, Taronga Park Zoo	N/A

students

Student Name	Supervisor	Degree Type	End Date	University Enrolled in
Jenny Yang	Dominic Dwyer and Jen Kok	Master of Medicine	31/01/2018	University of Sydney Summer Scholarship Program
Jayne Hanford	Cameron Webb	PhD	28/02/2018	University of Sydney
Quynh Mai Trinh	Vitali Sintchenko and Ben Marais	PhD	30/06/2018	University of Sydney
Anna Bethmont	Stephen Doggett and Cameron Webb	EHO Trainee	31/12/2018	NSW Health
Ravi Dotel	Matthew O'Sullivan and Lyn Gilbert	PhD	1/07/2019	University of Sydney
Alexander Outhred	Vitali Sintchenko and Ben Marais	PhD	30/12/2019	University of Sydney
Trang Dinh Van	Dominic Dwyer, Jen Kok, Rebecca Rockett	PhD	31/12/2019	University of Sydney
Winkie Fong	Vitali Sintchenko and Verlaine Timms	PhD	31/12/2019	University of Sydney
Abby Douglas	Monica Slavin, Sharon Chen	PhD	1/01/2020	Melbourne University
Caitlin Keighley	Sharon Chen and Sebastiaan van Hal	Master of Medicine	31/01/2020	University of Sydney
Andrea Bustamante	Vitali Sintchenko and Elena Martinez	Masters	30/06/2020	University of Sydney
Chutipong Sukkanon	Stephen Doggett	PhD	1/09/2020	Kasetsart University
Amornrat Phathawong	Stephen Doggett	PhD	10/09/2021	Kasetsart University
Julian Lindsay	Slavin MA, Chen SCA, Kong DC	PhD	1/06/2022	Monash Univeristy
Mitchell Brown	Matthew O'Sullivan and Lyn Gilbert	PhD		University of Sydney

journal positions

Name	Journal/Book	Position	Therapeutic Area
Sharon Chen	Journal of Clinical Microbiology	Editorial Board member	Medical Microbiology
Sharon Chen	Current Fungal Infection Reports	Section Editor (Diagnostics)	Medical Microbiology
Sharon Chen	Pathology	Associate Editor (Microbiology)	Medical Microbiology
Dominic Dwyer	British Medical Journal	Advisory Panel for 'State of the Art' series	Clinical Sciences
Stephen Doggett	Austral Entomology	Subject Editor for Medical, Urban, Veterinary and Forensic Entomology	Public Health and Health Services
Vitali Sintchenko	Journal of Pathology Informatics	Editorial Board Member	Medical Microbiology
Vitali Sintchenko	Journal of Clinical Bioinformatics	Editorial Board Member	Medical Microbiology
Vitali Sintchenko	Frontiers in Medicine Infectious Diseases	Associate Editor	Clinical Sciences
Stephen Doggett	FAOPMA Magazine	Editor in Chief	Public Health and Health Services

transfusion

Transfusion medicine is the branch of medicine concerned with transfusion of blood and blood components and is underpinned by a complex array of immunoohaematological testing.



Clinical Stream Lead

“Transfusion medicine continues to benefit from active interdisciplinary research. Areas of study include establishing new surveillance systems that record data and transfusion outcomes to better understand and manage the risks associated with transfusion; limiting transfusions based on careful assessment of need, and ultimately improving patient care; technologies that will more precisely identify blood components to increase patient safety and simplify blood inventory; improved automation to increase efficiency and decrease error. ”

research projects in focus

Using evidence-based age cut off to define child-bearing potential - impact on provision of O-negative (O NEG) red blood cell (RBC) to women in emergency situation when blood group is unknown

Chief Investigator: Leonardo Pasalic

- 7% to 8% of Australian blood donors are Group O RhD negative, however Group O RhD negative red cells represent 10% to 12% of total red cell issues
- One of the mandatory indications for the use of Group O RhD negative red cells is in emergency to RhD negative females with childbearing potential of unknown blood group
- NEG RBC is a precious resource
- O NEG RBC is given in emergency situations for women < 51 where blood group unknown
- Most guidelines fail to define the upper age cut off for childbearing potential; however, the commonly accepted age is 50
- Analysis of maternal age for 28,312 births at Westmead Hospital (2012-2016) revealed a median maternal age of 30.5 years (14 – 51.5)
- 99.5% of women delivering at Westmead Hospital during the study period were 44 or younger.
- The age at which women in WSLHD should be considered to be of child-bearing potential (thus requiring receipt of Group O RhD negative red cells in an emergency situation) may safely be lowered from the commonly accepted age of 50 to the age of 44.
- Use of locally derived age cut-offs at which 99.5% of eligible women will be captured will improve utilisation of Group O RhD negative red cells and preserve this precious resource for patients who truly need them.

publications

Nº	Publication Type	Publication Title	Authors	Citation
1	Editorials/Commentary	Tranexamic acid to prevent post-partum haemorrhage.	Van Der Linde R, Favaloro EJ.	Blood Transfus. 2018 Jul;16(4):321-323. PMID: 29757130
2	Original Peer Reviewed	Donor white blood cell survival and cytokine profiles following red blood cell transfusion in Australian major trauma patients.	Rena Hirani, Melinda M Dean, Zsolt J Balogh, Natalie J Lott, Julie Seggie, Jeremy M Hsu, Susan Taggart, Peter Maitz, Lesley Survela, Anthony Joseph, Mark Gillett and David O Irving.	Mol Immunol. 2018; 103:229-234. doi:10.1016/j.molimm.2018.08.024

research projects

Title of Research Project	Clinical Operations Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions
Growth Differentiation Factor-15	Western Sydney	ICPMR; #Westmead	Cardiorespiratory Medicine and Haematology	Lippi G	Section of Clinical Biochemistry, University of Verona, Verona, Italy. Department of Physiology, Instituto de Investigación INCLIVA, University of Valencia and Fundación Investigación Hospital Clínico Universitario de Valencia, Valencia, Spain. Leon H. Charney Division of Cardiology, New York University School of Medicine, New York, USA. NSWHP-ICPMR.
Is the Multiplate a useful instrument for hemostasis evaluation?	Western Sydney	ICPMR; #John Hunter; #Westmead	Cardiorespiratory Medicine and Haematology	Emmanuel J Favaloro	
Evaluating the benefits of extended blood group genotyping and the incidence of donor white cells survival in chronically transfused patients.	Western Sydney	ICPMR;			
#Westmead	Transfusion Medicine	Rena Hirani	The Australian Red Cross Blood Service		

research projects

Title of Research Project	Clinical Operations Area	NSWHP Location	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions
Using evidence-based age cut off to define child-bearing potential - impact on provision of O NEG RBC to women in emergency situation when blood group is unknown	Western Sydney	ICPMR; #Westmead	Transfusion Medicine	Leonardo Pasalic	
Australian and New Zealand Massive Transfusion Registry (ANZ-MTR)	Western Sydney	ICPMR; #Westmead	Transfusion Medicine	Associate Professor Erica Wood; Professor Peter Cameron	Transfusion Research Unit, Department of Epidemiology & Preventive Medicine, School of Public Health and Preventive Medicine, Monash University, Melbourne
Appropriateness of Fresh Frozen Plasma and Prothrombinex Use at Westmead Hospital	Western Sydney	ICPMR; Westmead	Transfusion Medicine	Leonardo Pasalic	
Extended Life Plasma (ELP) in Pre-hospital setting	Western Sydney	ICPMR; Westmead	Transfusion Medicine, Trauma	Leonardo Pasalic	CareFlight Air Ambulance, Sydney



statewide clinical services



Dr Stephen Braye
Chief Medical Information Officer
Executive Director of Clinical Services

NSW Health Pathology has four statewide clinical services.

The Clinical Services were established to provide leadership, develop innovative models of care, set best practice, and provide clinical advice. In some cases, the clinical service also provides operational oversight.

They work closely with clinical streams, operations groups and local health district partners to develop effective services for patients and NSWHP clients.

The Statewide Clinical Services also participate in service development and instrument design across national and international realms.

They are exploring relationships with tertiary institutions for scientific research, higher degree opportunities, as well as engaging with ICT faculties to develop artificial intelligence in clinical systems.

The Statewide Clinical Services are:

Point of Care Testing (PoCT):

We have the world's largest managed PoCT network delivering diagnostic services to NSW, with more than 680 devices and over 26,000 users.

Genomics:

We have three streams consisting of pathogen genomics, cancer genomics, and rare disease genomics.

We are developing a genomics cloud reporting framework through the Privacy and Security Accreditation Framework of eHealth.

Public Health Pathology:

We are actively participating in the establishment of the expanded pathogen genomics service

We are undertaking a comprehensive review of testing for notifiable diseases in the NSWHP laboratory network, identifying what, where and how testing is undertaken for organisms of public health significance.

for all of
focus

genomics

We have created a statewide genomics service which pools the expertise that exists across our laboratories into a coordinated service dedicated to delivering state-of-the-art diagnostics and care for patients. Our pathologists and scientists are developing faster, more efficient tests for an ever-expanding range of genes linked to conditions including cancer, heart disease and developmental delay in children.



Cliff Meldrum
Director of Genomics

“ Research is pivotal to the emerging discipline of genomics, particularly as an enabler of precision medicine, and as we translate genomics into clinical practice in the areas of rare childhood syndromes, targeted cancer treatments and the management of micro-organisms of concern to public health. ”

publication in focus

JOURNAL citation - Cell. 2018;172(5):924-936.e11.

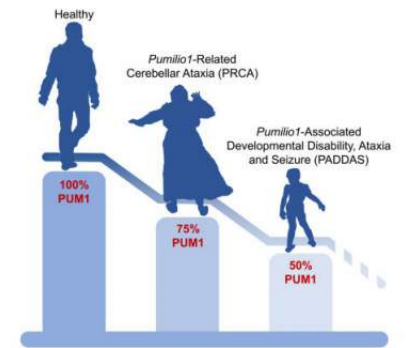
Title - A Mild PUM1 Mutation Is Associated with Adult-Onset Ataxia, whereas Haploinsufficiency Causes Developmental Delay and Seizures.

Authors - Vincenzo A Gennarino, Elizabeth E Palmer, Laura M McDonell, Li Wang, Carolyn J Adamski, Amanda Koire, Lauren See, Chun-An Chen, Christian P Schaaf, Jill A Rosenfeld, Jessica A Panzer, Ute Moog, Shuang Hao, Ann Bye, **Edwin P Kirk**, Pawel Stankiewicz, Amy M Breman, Arran McBride, Tejaswi Kandula, Holly A Dubbs, Rebecca Macintosh, Michael Cardamone, **Ying Zhu**, Kevin Ying, Kerith-Rae Dias, Megan T Cho, Lindsay B Henderson, Berivan Baskin, Paula Morris, Jiang Tao, Mark J Cowley, Marcel E Dinger, **Tony Roscioli**, Oana Caluseriu, Oksana Suchowersky, Rani K Sachdev, Olivier Lichtarge, Jianrong Tang, Kym M Boycott, J Lloyd Holder Jr and Huda Y Zoghbi.

Study outcome

Certain mutations can cause proteins to accumulate in neurons, leading to neurodegeneration. We recently showed, however, that upregulation of a wild-type protein, Ataxin1, caused by haploinsufficiency of its repressor, the RNA-binding protein Pumilio1 (PUM1), also causes neurodegeneration in mice. We therefore searched for human patients with PUM1 mutations. We identified eleven individuals with either PUM1 deletions or de novo missense variants who suffer a developmental syndrome (Pumilio1-associated developmental disability, ataxia, and seizure; PADDAS). We also identified a milder missense mutation in a family with adult-onset ataxia with incomplete penetrance (Pumilio1-related cerebellar ataxia, PRCA). Studies in patient-derived cells revealed that the missense mutations reduced PUM1 protein levels by 25% in the adult-onset cases and by 50% in the infantile-onset cases (see figure); levels of known PUM1 targets increased accordingly. Changes in protein levels thus track with phenotypic severity and identifying posttranscriptional modulators of protein expression should identify new candidate disease genes.

Gennarino et al.



publications

Nº	Publication Type	Publication Title	Authors	Citation
1	Original Peer Reviewed	Genetic burden and associations with adverse neurodevelopment in neonates with congenital heart disease.	Blue GM, Ip E, Walker K, Kirk EP, Loughran-Fowlds A, Sholler GF, Dunwoodie SL, Harvey RP, Giannoulatou E, Badawi N, Winlaw DS.	Am Heart J. 2018; 201:33-39./ pubmed/29910053
2	Original Peer Reviewed	Mutations in the Epithelial Cadherin-p120-Catenin Complex Cause Mendelian Non-Syndromic Cleft Lip with or without Cleft Palate.	Cox LL, Cox TC, Moreno Uribe LM, Zhu Y, Richter CT, Nidey N, Standley JM, Deng M, Blue E, Chong JX, Yang Y, Carstens RP, Anand D, Lachke SA, Smith JD, Dorschner MO, Bedell B, Kirk E, Hing AV, Venselaar H, Valencia-Ramirez LC, Bamshad MJ, et al.	Am J Hum Genet. 2018 Jun 7;102(6):1143-1157. / pubmed/29805042
3	Original Peer Reviewed	Oral health and dental morbidity in long-term allogeneic blood and marrow transplant survivors in Australia.	Dyer G, Brice L, Schifter M, Gilroy N, Kabir M, Hertzberg M, Greenwood M, Larsen SR, Moore J, Gottlieb D, Huang G, Hogg M, Brown L, Tan J, Ward C, Kerridge I.	Aust Dent J. 2018 Jun 7./ pubmed/29878377
4	Original Peer Reviewed	Immune evasion via PD-1/PD-L1 on NK cells and monocyte/ macrophages is more prominent in Hodgkin lymphoma than DLBCL.	Vari F, Arpon D, Keane C, Hertzberg MS, Talaulikar D, Jain S, Cui Q, Han E, Tobin J, Bird R, Cross D, Hernandez A, Gould C, Birch S, Gandhi MK.	Blood. 2018 Apr 19;131(16):1809-1819. /pubmed/29449276
5	Original Peer Reviewed	Changes to work status and household income of long-term allogeneic blood and marrow transplant survivors in New South Wales, Australia.	Dyer G, Brice L, Gilroy N, Kabir M, Hertzberg M, Greenwood M, Larsen SR, Moore J, Gottlieb D, Huang G, Hogg M, Brown L, Tan J, Ward C, Kerridge I.	Bone Marrow Transplant. 2018 Jul;53(7):926-931. / pubmed/29379170
6	Original Peer Reviewed	Autologous transplantation versus allogeneic transplantation in patients with follicular lymphoma experiencing early treatment failure.	Smith SM, Godfrey J, Ahn KW, DiGilio A, Ahmed S, Agrawal V, Bachanova V, Bacher U, Bashey A, BolaÑ±os-Meade J, Cairo M, Chen A, Chhabra S, Copelan E, Dahi PB, Aljurf M, Farooq U, Ganguly S, Hertzberg M, Holmberg L, Inwards D, Kanate AS, et al.	Cancer. 2018 Jun 15;124(12):2541-2551. / pubmed/29645093

publications

Nº	Publication Type	Publication Title	Authors	Citation
7	Original Peer Reviewed	A Primate-Specific Isoform of PLEKHG6 Regulates Neurogenesis and Neuronal Migration.	O'Neill AC, Kyrousi C, Klaus J, Leventer RJ, Kirk EP, Fry A, Pilz DT, Morgan T, Jenkins ZA, Drukker M, Berkovic SF, Scheffer IE, Guerrini R, Markie DM, Götz M, Cappello S, Robertson SP.	Cell Rep. 2018 Dec 4;25(10):2729-2741.e6. / pubmed/30517861
8	Original Peer Reviewed	A Mild PUM1 Mutation Is Associated with Adult-Onset Ataxia, whereas Haploinsufficiency Causes Developmental Delay and Seizures.	Gennarino VA, Palmer EE, McDonell LM, Wang L, Adamski CJ, Koire A, See L, Chen CA, Schaaf CP, Rosenfeld JA, Panzer JA, Moog U, Hao S, Bye A, Kirk EP, Stankiewicz P, Breman AM, McBride A, Kandula T, Dubbs HA, Macintosh R, Cardamone M, et al.	Cell. 2018 Feb 22;172(5):924-936.e11. /pubmed/29474920
9	Original Peer Reviewed	Genetic variation affecting DNA methylation and the human imprinting disorder, Beckwith-Wiedemann syndrome.	Dagar V, Hutchison W, Muscat A, Krishnan A, Hoke D, Buckle A, Siswara P, Amor DJ, Mann J, Pinner J, Colley A, Wilson M, Sachdev R, McGillivray G, Edwards M, Kirk E, Collins F, Jones K, Taylor J, Hayes I, Thompson E, Barnett C, et al.	Clin Epigenetics. 2018 Aug 30;10(1):114. / pubmed/30165906
10	Original Peer Reviewed	Failure of daptomycin Î²-Lactam combination therapy to prevent resistance emergence in Enterococcus faecium.	Menon V, Davis R, Shackel N, Espedido BA, Beukers AG, Jensen SO, van Hal SJ.	Diagn Microbiol Infect Dis. 2018 Feb;90(2):120-122. / pubmed/29195768
11	Original Peer Reviewed	Cronobacter sakazakii Infection from Expressed Breast Milk, Australia.	McMullan R, Menon V, Beukers AG, Jensen SO, van Hal SJ, Davis R.	Emerg Infect Dis. 2018 Feb;24(2):393-394. / pubmed/29350166
12	Original Peer Reviewed	Mob2 Insufficiency Disrupts Neuronal Migration in the Developing Cortex.	O'Neill AC, Kyrousi C, Einsiedler M, Burtcher I, Drukker M, Markie DM, Kirk EP, Götz M, Robertson SP, Cappello S.	Front Cell Neurosci. 2018 Mar 12; 12:57. /pubmed/29593499

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13	Original Peer Reviewed	Glioblastoma Recurrence Correlates With Increased APE1 and Polarization Toward an Immuno-Suppressive Microenvironment.	Hudson AL, Parker NR, Khong P, Parkinson JF, Dwight T, Ikin RJ, Zhu Y, Chen J, Wheeler HR, Howell VM.	Front Oncol. 2018 Aug 13; 8:314. /pubmed/30151353
14	Original Peer Reviewed	Whole-exome sequencing reanalysis at 12 months boosts diagnosis and is cost-effective when applied early in Mendelian disorders.	Ewans LJ, Schofield D, Shrestha R, Zhu Y, Gayevskiy V, Ying K, Walsh C, Lee E, Kirk EP, Colley A, Ellaway C, Turner A, Mowat D, Worgan L, Freckmann ML, Lipke M, Sachdev R, Miller D, Field M, Dinger ME, Buckley MF, Cowley MJ, et al.	Genet Med. 2018 Dec;20(12):1564-1574. / pubmed/29595814
15	Original Peer Reviewed	Tell me once, tell me soon: parents’ preferences for clinical genetics services for congenital heart disease.	Kasparian NA, De Abreu Lourenco R, Winlaw DS, Sholler GF, Viney R, Kirk EPE.	Genet Med. 2018 Nov;20(11):1387-1395. / pubmed/29493584
16	Original Peer Reviewed	A craniosynostosis massively parallel sequencing panel study in 309 Australian and New Zealand patients: findings and recommendations.	Lee E, Le T, Zhu Y, Elakis G, Turner A, Lo W, Venselaar H, Verrenkamp CA, Snow N, Mowat D, Kirk EP, Sachdev R, Smith J, Brown NJ, Wallis M, Barnett C, McKenzie F, Freckmann ML, Collins F, Chopra M, Gregersen N, Hayes I, et al.	Genet Med. 2018 Sep;20(9):1061-1068. / pubmed/29215649
17	Original Peer Reviewed	Acute myeloid leukaemia relapsing after allogeneic haemopoietic stem cell transplantation: prognostic factors and impact of initial therapy of relapse.	Lim ABM, Curley C, Fong CY, Bilmon I, Beligaswatte A, Purtill D, Getta B, Johnston AM, Armytage T, Collins M, Mason K, Fielding K, Greenwood M, Gibson J, Hertzberg M, Wright M, Lewis I, Moore J, Curtis D, Szer J, Kennedy G, Ritchie D.	Intern Med J. 2018 Mar;48(3):276-285. / pubmed/28628276

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18	Original Peer Reviewed	Immunochemotherapy With Obinutuzumab or Rituximab for Previously Untreated Follicular Lymphoma in the GALLIUM Study: Influence of Chemotherapy on Efficacy and Safety.	Hiddemann W, Barbui AM, Canales MA, Cannell PK, Collins GP, D’Amico J, Forstpointner R, Herold M, Hertzberg M, Klanova M, Radford J, Seymour JF, Tobinai K, Trotman J, Burciu A, Fingerle-Rowson G, Wolbers M, Nielsen T, Marcus RE.	J Clin Oncol. 2018 Aug 10;36(23):2395-2404. / pubmed/29856692
19	Original Peer Reviewed	Impact of salvage treatment modalities in patients with positive FDG-PET/CT after R-CHOP chemotherapy for aggressive B-cell non-Hodgkin lymphoma.	Chin V, Fulham M, Hertzberg M, Jackson M, Lindeman R, Brighton T, Kidson-Gerber G, Wegner EA, Cheung C, MacCallum S, Williams J, Thompson SR.	J Med Imaging Radiat Oncol. 2018 Jun;62(3):432-439. / pubmed/29577608
20	Original Peer Reviewed	Analysis of clinically relevant somatic mutations in high-risk head and neck cutaneous squamous cell carcinoma.	Zilberg C, Lee MW, Yu B, Ashford B, Kraitsek S, Ranson M, Shannon K, Cowley M, Iyer NG, Palme CE, Ch’ng S, Low TH, O’Toole S, Clark JR, Gupta R.	Mod Pathol. 2018 Feb;31(2):275-287. / pubmed/28984303
21	Original Peer Reviewed	Integrating exome sequencing into a diagnostic pathway for epileptic encephalopathy: Evidence of clinical utility and cost effectiveness.	Palmer EE, Schofield D, Shrestha R, Kandula T, Macintosh R, Lawson JA, Andrews I, Sampaio H, Johnson AM, Farrar MA, Cardamone M, Mowat D, Elakis G, Lo W, Zhu Y, Ying K, Morris P, Tao J, Dias KR, Buckley M, Dinger ME, Cowley MJ, et al.	Mol Genet Genomic Med. 2018 Mar;6(2):186-199. / pubmed/29314763
22	Original Peer Reviewed	Variants in ACTG2 underlie a substantial number of Australasian patients with primary chronic intestinal pseudo-obstruction.	Ravenscroft G, Pannell S, O’Grady G, Ong R, Ee HC, Faiz F, Marns L, Goel H, Kumarasinghe P, Sollis E, Sivadorai P, Wilson M, Magoffin A, Nightingale S, Freckmann ML, Kirk EP, Sachdev R, Lemberg DA, Delatycki MB, Kamm MA, Basnayake C, Lamont PJ, et al.	Neurogastroenterol Motil. 2018 Sep;30(9):e13371. / pubmed/29781137

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23	Original Peer Reviewed	Frequent activating STAT3 mutations and novel recurrent genomic abnormalities detected in breast implant-associated anaplastic large cell lymphoma.	Blombery P, Thompson E, Ryland GL, Joyce R, Byrne DJ, Khoo C, Lade S, Hertzberg M, Hapgood G, Marlton P, Deva A, Lindeman G, Fox S, Westerman D, Prince M.	Oncotarget. 2018 Nov 16;9(90):36126-36136. / pubmed/30546832
24	Original Peer Reviewed	Circulating cell-free miR-494 and miR-21 are disease response biomarkers associated with interim-positron emission tomography response in patients with diffuse large B-cell lymphoma.	Cui Q, Vari F, Cristino AS, Salomon C, Rice GE, Sabdia MB, Guanzon D, Palma C, Mathew M, Talaulikar D, Jain S, Han E, Hertzberg MS, Gould C, Crooks P, Thillaiampalam G, Keane C, Gandhi MK.	Oncotarget. 2018 Oct 5;9(78):34644-34657. / pubmed/30410665
25	Original Peer Reviewed	De novo and inherited private variants in MAP1B in periventricular nodular heterotopia.	Heinzen EL, O'Neill AC, Zhu X, Allen AS, Bahlo M, Chelly J, Chen MH, Dobyns WB, Freytag S, Guerrini R, Leventer RJ, Poduri A, Robertson SP, Walsh CA, Zhang M; Epi4K Consortium.; Epilepsy Phenome/Genome Project.	PLoS Genet. 2018 May 8;14(5):e1007281. /pubmed/29738522
26	Original Peer Reviewed	Integration of genomics, high throughput drug screening, and personalized xenograft models as a novel precision medicine paradigm for high risk pediatric cancer.	Tsoli M, Wadham C, Pinese M, Failes T, Joshi S, Mould E, Yin JX, Gayevskiy V, Kumar A, Kaplan W, Ekert PG, Saletta F, Franshaw L, Liu J, Gifford A, Weber MA, Rodriguez M, Cohn RJ, Arndt G, Tyrrell V, Haber M, Trahair T, et al.	Cancer Biol Ther. 2018;19(12):1078-1087. / pubmed/30299205
27	Original Peer Reviewed	Relentless Spread and Adaptation of Non-Typeable vanA Vancomycin-Resistant Enterococcus Faecium: A Genome-Wide Investigation	van Hal SJ, Beukers AG, Timms VJ, Ellem JA, Taylor P, Maley MW, Newton PJ, Ferguson JK, Lee A, Chen SC, Sintchenko V.	J Antimicrob Chemother, 2018, Jun 1;73(6):1487-1491. / pubmed/29566173

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28	Original Peer Reviewed	Proteomic Profiling of Human Uterine Fibroids Reveals Upregulation of the Extracellular Matrix Protein Periostin	Jamaluddin MFB, Ko YA, Kumar M, Brown Y, Bajwa P, Nagendra PB, Skerrett-Byrne DA, Hondermarck H, Baker MA, Dun MD, Scott RJ, Nahar P, Tanwar PS.	Endocrinology. 2018 Feb 1;159(2):1106-1118. doi: 10.1210/en.2017-03018.
29	Original Peer Reviewed	Differential effect of disease-associated ST8SIA2 haplotype on cerebral white matter diffusion properties in schizophrenia and healthy controls.	Fullerton JM, Klauser P, Lenroot RK, Shaw AD, Overs B, Heath A, Cairns MJ, Atkins J, Scott R; Australian Schizophrenia Research Bank, Schofield PR, Weickert CS, Pantelis C, Fornito A, Whitford TJ, Weickert TW, Zalesky A.	Transl Psychiatry. 2018 Jan 22;8(1):21. doi: 10.1038/s41398-017-0052-z.
30	Editorials/ Commentary	Letter to the editor: blood processing and sample storage have negligible effects on methylation.	Groen K, Lea RA, Maltby VE, Scott RJ, Lechner-Scott J. Letter to the editor: blood processing and sample storage have negligible effects on methylation.	Clin Epigenetics. 2018 Feb 14; 10:22. doi: 10.1186/s13148-018-0455-6
31	Original Peer Reviewed	Genetic overlap between endometriosis and endometrial cancer: evidence from cross-disease genetic correlation and GWAS meta-analyses.	Painter JN, O'Mara TA, Morris AP, Cheng THT, Gorman M, Martin L, Hodson S, Jones A, Martin NG, Gordon S, Henders AK, Attia J, McEvoy M, Holliday EG, Scott RJ, et al.	Cancer Med. 2018 Apr 2. doi: 10.1002/cam4.1445.
32	Original Peer Reviewed	Cross-ancestry genome-wide association analysis of corneal thickness strengthens link between complex and Mendelian eye diseases.	Iglesias AI, Mishra A, Vitart V, Bykhovskaya Y, et al.	Nat Commun. 2018 May 14;9(1):1864. doi: 10.1038/s41467-018-03646-6.
33	Original Peer Reviewed	Estimation of Genetic Correlation via Linkage Disequilibrium Score Regression and Genomic Restricted Maximum Likelihood.	Ni G, Moser G; Schizophrenia Working Group of the Psychiatric Genomics Consortium, Wray NR, Lee SH.	Am J Hum Genet. 2018 Apr 26. doi: 10.1016/j.ajhg.2018.03.021.

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35	Original Peer Reviewed	Founder Mutations for Early Onset Melanoma as Revealed by Whole Exome Sequencing Suggests That This is Not Associated with the Increasing Incidence of Melanoma in Poland.	Dębniak T, Scott RJ, Lea RA, Górski B, Masojć B, Cybulski C, Kram A, Maleszka R, Gromowski T, Paszkowska-Szczur K, Kashyap A, Lener MR, Malińska K, Rogoża E, Murawa D, Rudnicka H, Deptuła J, Lubiński J.	Cancer Res Treat. 2018 May 14. doi: 10.4143/crt.2018.157.
36	Original Peer Reviewed	Evaluating linear regression models for deconvolution of methylation signal from mixed blood DNA	Kennedy DW, White NM, Benton M, Scott R, Griffiths L, Mengersen K and Lea R	Bioinformatics doi:10.1093
37	Original Peer Reviewed	Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function.	Davies G, Lam M, Harris SE, Trampush JW, et al.	Nat Commun. 2018 May 29;9(1):2098. doi: 10.1038/s41467-018-04362-x.
38	Original Peer Reviewed	A transcriptome-wide association study of 229,000 women identifies new candidate susceptibility genes for breast cancer.	Wu L, Shi W, Long J, Guo X, Michailidou K, et al.	Nat Genet. 2018 Jun 18. doi: 10.1038/s41588-018-0132-x.
39	Original Peer Reviewed	Genomic Dissection of Bipolar Disorder and Schizophrenia, Including 28 Subphenotypes.	Bipolar Disorder and Schizophrenia Working Group of the Psychiatric Genomics Consortium. Electronic address: douglas.ruderfer@vanderbilt.edu; Bipolar Disorder and Schizophrenia Working Group of the Psychiatric Genomics Consortium.	Cell. 2018 Jun 14;173(7):1705-1715.e16. doi: 10.1016/j.cell.2018.05.046.

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41	Original Peer Reviewed	Analysis of shared heritability in common disorders of the brain.	Brainstorm Consortium, Anttila V, Bulik-Sullivan B, et al.	Science. 2018 Jun 22;360(6395). doi: 10.1126/science.aap8757.
42	Original Peer Reviewed	Low-level parental mosaicism in an apparent de novo case of Peutz-Jeghers syndrome.	Butel-Simoes GI, Spigelman AD, Scott RJ, Vilain RE.	Fam Cancer. 2018 Jun 14. doi: 10.1007/s10689-018-0093-3.
43	Original Peer Reviewed	Cortical Brain Abnormalities in 4474 Individuals With Schizophrenia and 5098 Control Subjects via the Enhancing Neuro Imaging Genetics Through Meta Analysis (ENIGMA) Consortium.	van Erp TGM, Walton E, Hibar DP, et al.	Biol Psychiatry. 2018 May 14. doi:10.1016/j.biopsych.2018.04.023.
44	Original Peer Reviewed	Age at first birth in women is genetically associated with increased risk of schizophrenia.	Ni G, Gratten J, Wray NR, Lee SH; Schizophrenia Working Group of the Psychiatric Genomics Consortium.	Sci Rep. 2018 Jul 5;8(1):10168. doi: 10.1038/s41598-018-28160-z.
45	Original Peer Reviewed	Association of zinc level and polymorphism in MMP-7 gene with prostate cancer in Polish population.	Białkowska K, Marciniak W, Muszyńska M, Baszuk P, Gupta S, Jaworska-Bieniek K, Sukiennicki G, Durda K, Gromowski T, Prajzendanc K, Cybulski C, Huzarski T, Gronwald J, Dębniak T, Scott RJ, Lubiński J, Jakubowska A	PLoS One. 2018 Jul 23;13(7):e0201065. doi: 10.1371/journal.pone.0201065

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46	Original Peer Reviewed	Gene discovery and polygenic prediction from a genome-wide association study of educational attainment in 1.1 million individuals.	Lee JJ, Wedow R, Okbay A, Kong E, et al.	Nat Genet. 2018 Jul 23. doi: 10.1038/s41588-018-0147-3.
47	Original Peer Reviewed	DNA methylation changes in CD4+ T cells isolated from multiple sclerosis patients on dimethyl fumarate.	Maltby VE, Lea RA, Ribbons KA, Sanders KA, Kennedy D, Min M, Scott RJ, Lechner-Scott J.	Mult Scler J Exp Transl Clin. 2018 Jul 17;4(3):2055217318787826. doi: 10.1177/2055217318787826.
48	Original Peer Reviewed	Multiethnic meta-analysis identifies ancestry-specific and cross-ancestry loci for pulmonary function.	Wyss AB, Sofer T, Lee MK, et al	Nat Commun. 2018 Jul 30;9(1):2976.doi: 10.1038/s41467-018-05369-0.
49	Original Peer Reviewed	CD36 - a plausible modifier of disease phenotype in familial adenomatous polyposis.	Holmes M, Connor T, Oldmeadow C, Pockney PG, Scott RJ, Talseth-Palmer BA.	Hered Cancer Clin Pract. 2018 Jul 28; 16:14. doi: 10.1186/s13053-018-0096-y
50	Original Peer Reviewed	Identification of nine new susceptibility loci for endometrial cancer.	O'Mara TA, Glubb DM, Amant F, et al.	Nat Commun. 2018 Aug 9;9(1):3166. doi: 10.1038/s41467-018-05427-7.
51	Original Peer Reviewed	Cancer Risks for PMS2-Associated Lynch Syndrome.	Ten Broeke SW, van der Klift HM, et al.	J Clin Oncol. 2018 Aug 30: JCO2018784777. doi: 10.1200/JCO.2018.78.4777.
52	Original Peer Reviewed	Mutations in RECQL are not associated with breast cancer risk in an Australian population.	Li N, Rowley SM, Goode DL, Amarasinghe KC, McInerny S, Devereux L; LifePool Investigators, Wong-Brown MW, Lupat R, Lee JEA, Hughes S, Thompson ER, Zethoven M, Li J, Trainer AH, Gorringe KL, Scott RJ, James PA, Campbell IG.	Nat Genet. 2018 Oct;50(10):1346-1348. doi: 10.1038/s41588-018-0206-9.

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53	Original Peer Reviewed	Genetic analysis of over 1 million people identifies 535 new loci associated with blood pressure traits.	Evangelou E, Warren HR, Mosen-Ansorena D, et al.	Nat Genet. 2018 Oct;50(10):1412-1425. doi: 10.1038/s41588-018-0205-x.
54	Original Peer Reviewed	Associations of obesity and circulating insulin and glucose with breast cancer risk: a Mendelian randomization analysis.	Shu X, Wu L, Khankari NK, Shu XO, Wang TJ, Michailidou K, Bolla MK, Wang Q, Dennis J, Milne RL, Schmidt MK, Pharoah PDP, Andrulis IL, Hunter DJ, Simard J, Easton DF, Zheng W; Breast Cancer Association Consortium	Int J Epidemiol. 2018 Oct 1. doi: 10.1093/ije/dyy201.
55	Original Peer Reviewed	BRCA1/2 mutations are not a common cause of malignant melanoma in the Polish population.	Dębniak T, Scott RJ, Górski B, Masojć B, Kram A, Maleszka R, Cybulski C, Paszkowska-Szczur K, Kashyap A, Murawa D, Malińska K, Kiedrowicz M, Rogoża-Janiszewska E, Rudnicka H, Deptuła J, Domagała P, Kluźniak W, Lener MR, Lubiński J.	PLoS One. 2018 Oct 4;13(10): e0204768. doi: 10.1371/journal.pone.0204768.
56	Original Peer Reviewed	Increased DNA methylation of SLFN12 in CD4+ and CD8+ T cells from multiple sclerosis patients.	Rhead B, Brorson IS, Berge T, Adams C, Quach H, Moen SM, Berg-Hansen P, Celius EG, Sangurdekar DP, Bronson PG, Lea RA, Burnard S, Maltby VE, Scott RJ, Lechner-Scott J, Harbo HF, Bos SD, Barcellos LF.	PLoS One. 2018 Oct 31;13(10): e0206511. doi: 10.1371/journal.pone. 0206511.
57	Original Peer Reviewed	Genome Analyses of >200,000 Individuals Identify 58 Loci for Chronic Inflammation and Highlight Pathways that Link Inflammation and Complex Disorders.	Ligthart S, Vaez A, Võsa U, et al.	Am J Hum Genet. 2018 Nov 1;103(5):691-706. doi: 10.1016/j.ajhg.2018.09.009.

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58	Original Peer Reviewed	The intron 3 16 bp duplication polymorphism of p53 (rs17878362) is not associated with increased risk of developing triple-negative breast cancer.	Morten BC, Chiu S, Oldmeadow C, Lubinski J, Scott RJ, Avery-Kiejda KA.	Breast Cancer Res Treat. 2018 Nov 14. doi: 10.1007/s10549-018-5039-9.
59	Original Peer Reviewed	Molecular patterns of cancer colonisation in lymph nodes of breast cancer patients.	Chatterjee G, Pai T, Hardiman T, Avery-Kiejda K, Scott RJ, Spencer J, Pinder SE, Grigoriadis A.	Breast Cancer Res. 2018 Nov 20;20(1):143. doi: 10.1186/s13058-018-1070-3.
60	Original Peer Reviewed	Genome-wide DNA methylation changes in CD19+ B cells from relapsing-remitting multiple sclerosis patients.	Maltby VE, Lea RA, Graves MC, Sanders KA, Benton MC, Tajouri L, Scott RJ, Lechner-Scott J.	Sci Rep. 2018 Nov 27;8(1):17418. doi: 10.1038/s41598-018-35603-0.
61	Original Peer Reviewed	Epigenetically reprogrammed methylation landscape drives the DNA self-assembly and serves as a universal cancer biomarker.	Sina AA, Carrascosa LG, Liang Z, Grewal YS, Wardiana A, Shiddiky MJA, Gardiner RA, Samaratunga H, Gandhi MK, Scott RJ, Korbie D, Trau M.	Nat Commun. 2018 Dec 4;9(1):4915. doi: 10.1038/s41467-018-07214-w.
62	Original Peer Reviewed	Differing Contributions of Classical Risk Factors to Type 2 Diabetes in Multi-Ethnic Malaysian Populations.	Abdullah N, Murad NAA, Attia J, Oldmeadow C, Kamaruddin MA, Jalal NA, Ismail N, Jamal R, Scott RJ, Holliday EG.	Int J Environ Res Public Health. 2018 Dec 10;15(12). doi: 10.3390/ijerph15122813.
63	Original Peer Reviewed	Polygenic Risk Scores for Prediction of Breast Cancer and Breast Cancer Subtypes.	Mavaddat N, Michailidou K, Dennis J, et al.	Am J Hum Genet. 2019 Jan 3;104(1):21-34. doi: 10.1016/j.ajhg.2018.11.002

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64	Original Peer Reviewed	Critical evaluation of linear regression models for cell-subtype specific methylation signal from mixed blood cell DNA.	Kennedy DW, White NM, Benton MC, Fox A, Scott RJ, Griffiths LR, Mengersen K, Lea RA.	PLoS One. 2018 Dec 20;13(12):e0208915. doi: 10.1371/journal.pone.0208915

grants & scholarships



Title	Funding amount	Chief Investigator; Other Cls/Als/Investigators; Collaborating Institutions	Funding Body
Establish preconception screening as a viable service to the Australian community	\$ 20,000,000.00; Research (2018 - 2021)	Kirk E	Genomics Health Futures Mission Grant

public health pathology

Public Health is our newest statewide service and is a key part of the value we bring to the health system and include experts across a range of areas including; disease outbreaks, laboratory investigations for notifiable diseases, responses to emerging diseases, monitoring public health trends, public health research and education, and supporting emergency preparedness.

“

Public health is the ‘the art and science of preventing disease, prolonging life and promoting health through the organised efforts of society’ (WHO). NSWHP’s contribution is the active and co-ordinated development, application and reporting of laboratory tests to meet this definition

”



Dominic Dwyer

Director of Public Health Pathology

Lead Pathologist, NSWHP-ICPMR Westmead

publication in focus

Journal citation- Viruses. 2018;10(9):476.

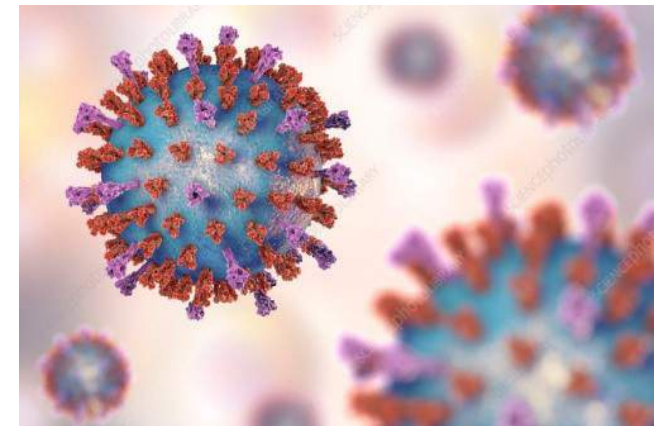
Title - Evolution of Human Respiratory Syncytial Virus (RSV) over Multiple Seasons in New South Wales, Australia.

Authors - Francesca Di Giallonardo, **Jen Kok, Marian Fernandez, Ian Carter**, Jemma L Geoghegan, **Dominic E Dwyer**, Edward C Holmes and John-Sebastian Eden.

Study outcome

There is an ongoing global pandemic of human respiratory syncytial virus (RSV) infection that results in substantial annual morbidity and mortality. In Australia, RSV is a major cause of acute lower respiratory tract infections (ALRI). Nevertheless, little is known about the extent and origins of the genetic diversity of RSV in Australia, nor the factors that shape this diversity. We have conducted a genome-scale analysis of RSV infections from 144 specimens collected between 2011-2016 in New South Wales (NSW).

We report a wide diversity of RSV lineages co-circulating in a small geographic region, reflecting a combination of continual virus entry and some sustained in situ transmission within NSW. This study also highlighted the highly biased global sampling of RSV that hinders extensive analysis of the global distribution and transmission dynamics of RSV. We stress that increased targeted surveillance with more extensive virus sampling, particularly during suspected outbreaks, is essential to improve both our understanding of RSV ecology and evolution and assist with vaccine design.



Respiratory syncytial virus (RSV).
Photo: Kateryna Kon/Science Photo Library

publications

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1	Original Peer Reviewed	An evaluation of variation in pathology investigations and associated factors for adult patients presenting to emergency departments with chest pain: An observational study.	Wabe N, Dahm MR, Li L, Lindeman R, Eigenstetter A, Westbrook JI, Georgiou A.	Int J Clin Pract. 2018 Dec 10: e13305./pubmed/30548173
2	Original Peer Reviewed	Mosquito excreta: a sample type with many applications for the investigation of Ross River virus and West Nile virus ecology	Ramirez A.L., Hall-Mendelin S., Doggett S.L., Hewitson G.R., McMahon J.L., Ritchie S.A. and van den Hurk A.	PLOS Neglected Tropical Diseases Aug 2018doi. org/10.1371/journal. pntd.0006771
3	Original Peer Reviewed	Emerging recombinant noroviruses identified by clinical and waste water screening.	Lun JH, Hewitt J, Sitabkhan A, Eden JS, Enosi Tuipulotu D, Netzler NE, Morrell L, Merif J, Jones R, Huang B, Warrilow D, Ressler KA, Ferson MJ, Dwyer DE, Kok J, Rawlinson WD, Deere D, Crosbie ND, White PA.	Emerg Microbes Infect. 2018 Mar 29;7(1):50. / pubmed/29593246
4	Original Peer Reviewed	Australian rubella serosurvey 2012-2013: On track for elimination?	Edirisuriya C, Beard FH, Hendry AJ, Dey A, Gidding HF, Hueston L, Dwyer DE, Wood JG, Macartney KK, McIntyre PB.	Vaccine 2018: 36:2794-2798./ pubmed/29661586
5	Original Peer Reviewed	Evolution of human respiratory syncytial virus (RSV) over multiple seasons in New South Wales, Australia.	Di Giallonardo F, Kok J, Fernandez M, Carter I, Geoghegan JL, Dwyer DE, Holmes EC, Eden J-S.	Viruses 2018; 10(9). pii: E476.

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6	Original Peer Reviewed	Delivering safe and effective test-result communication, management and follow-up: a mixed-methods study protocol.	Dahm MR, Georgiou A, Westbrook JI, Greenfield D, Horvath AR, Wakefield D, Li L, Hillman K, Bolton P, Brown A, Jones G, Herkes R, Lindeman R, Legg M, Makeham M, Moses D, Badmus D, Campbell C, Hardie RA, Li J, McCaughey E, Sezgin G, et al.	BMJ Open. 2018 Feb 15;8(2): e020235. /pubmed/29449297
7	Original Peer Reviewed	Impact of salvage treatment modalities in patients with positive FDG-PET/CT after R-CHOP chemotherapy for aggressive B-cell non-Hodgkin lymphoma.	Chin V, Fulham M, Hertzberg M, Jackson M, Lindeman R, Brighton T, Kidson-Gerber G, Wegner EA, Cheung C, MacCallum S, Williams J, Thompson SR.	J Med Imaging Radiat Oncol. 2018 Jun;62(3):432-439. / pubmed/29577608
8	Original Peer Reviewed	Making sense of a haemolysis monitoring and reporting system: a nationwide longitudinal multimethod study of 68 Australian laboratory participant organisations.	Li L, Vecellio E, Gay S, Lake R, Mackay M, Burnett L, Chesher D, Braye S, Badrick T, Westbrook JI, Georgiou A.	Clin Chem Lab Med. 2018 Mar 28;56(4):565-573. / pubmed/28915106
9	Original Peer Reviewed	Pending Laboratory Test Results at the Time of Discharge: A 3-Year Retrospective Comparison of Paper Versus Electronic Test Ordering in Three Emergency Departments.	Wabe N, Li L, Sezgin G, Dahm M, Vecellio E, Lindeman R, Westbrook J, Georgiou A.	Stud Health Technol Inform. 2018;252: 164-169. / pubmed/30040700
10	Review Article	Your number’s up!	Doggett S.L.	Mosquito Bites, 13(1):24-27.

publications

Nº	Publication Type	Publication Title	Authors	Citation
11	Book Chapter	Advances in the Biology and Management of Modern Bed Bugs.	Doggett S.L., Miller D., and Lee C-Y.	Advances in the Biology and Management of Modern Bed Bugs. Wiley-Blackwell, Oxford, UK. www.abmmmbb.com
12	Reports/Guidelines	The NSW Arbovirus Surveillance and Mosquito Monitoring Program. 2017-2018	Doggett S, Haniotis J, Clancy J, Webb C, Toi C and Hueston L, McIntyre L, Lim H, Dwyer DE.	Annual Report. September 2018.
13	Editorials/Commentary	Mosquitoes and Mosquito-borne Diseases in Australia, 2017-2018; New South Wales	Doggett S.L.	Mosquito Bites
14	Editorials/Commentary	China does it differently	Doggett S.L.	Pest, Oct/Nov (59):34-35.

research projects

Title of Research Project	Clinical Operation Area	Therapeutic Area	Funded by
An international observational study to characterize adults who are hospitalised with complications of influenza	Western Sydney	Public Health and Health Services	National Institute of Allegy and Infectious Diseases, USA
Genotyping of BK Polyomaviruses in Renal Transplant Recipients in Australia and Vietnam	Western Sydney	Medical Microbiology	Australia Award
Influenza in Pregnancy	Western Sydney	Public Health and Health Services	University of Sydney Summer Research Program
Strategic Timing of Antiretroviral Treatment	Western Sydney	Clinical Sciences	National Institute of Allegy and Infectious Diseases, USA

students

Student Name	Supervisor	Degree Type	End Date	University Enrolled in
Trang Van Dinh	Dwyer Dominic; Kok Jen	PhD	31/12/2019	University of Sydney
Jenny Yang	Dwyer Dominic; Kok Jen	Undergraduate Honours	27/01/2018	UNSW

forensic & analytical science

The Forensic & Analytical Science Service provides expert scientific and forensic pathology services to the NSW criminal and coronial justice system, NSW Police, NSW Health and other key partner Agencies to find answers for grieving families and the community throughout NSW.



Michael Symonds
Executive Director, Forensic & Analytical Science Service

“

Our service continues to embed targeted research initiatives to better support and enable health, justice and the coronial process to adapt to rapid changes in society, technology and community expectation.

”

publication in focus



Photo: In the loop, February 24, 2015

Journal citation - Forensic Sci Int Genet. 2018; 37:270-282.

Title - Current and emerging tools for the recovery of genetic information from post mortem samples: New directions for disaster victim identification.

Authors - **Watherston J**, McNevin D, Gahan ME, **Bruce D**, **Ward J**.

Study outcome

DNA profiling has emerged as the gold standard for the identification of victims in mass disaster events providing an ability to identify victims, reassociate remains and provide investigative leads at a relatively low cost, and with a high degree of discrimination.

Advances in technology and in the field of forensic biology have increased the options for the collection, sampling, preservation and processing of samples for DNA profiling. Furthermore, recent developments now allow a vast array of new genetic markers and genotyping techniques to extract as much genetic information from a sample as possible, ensuring that identification is not only accurate but also possible where material is degraded, or limited.

Where historically DNA profiling has involved comparison with ante mortem samples or relatives, now DNA profiling can direct investigators towards putative victims or relatives, for comparison through the determination of externally visible characteristics, or biogeographical ancestry. The exploration of new sources of DNA, and the development of genetic markers and technologies continues to offer an increasing number of tools for DNA-based disaster victim identification.

publications

Nº	Publication Type	Publication Title	Authors	Citation
1	Original Peer Reviewed	Occupational health and safety in cannabis production: an Australian perspective.	Davidson M, Reed S, Oosthuizen J, O'Donnell G, Gaur P, Cross M, Dennis G.	Int J Occup Environ Health. 2018 Jul - Oct;24(3-4):75-85. / pubmed/30281413
2	Review Article	Current and emerging tools for the recovery of genetic information from post mortem samples: New directions for disaster victim identification.	Watherston J, McNevin D, Gahan ME, Bruce D, Ward J.	Forensic Sci Int Genet. 2018 Nov;37:270-282. / pubmed/30181101

research projects

Title of Research Project	Clinical Operations Area	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
A new tool to fight crime: Illicit drug profiling in forensic intelligence	Lidcombe	Illicit Drugs Analysis Unit			ARC Linkage Grant with collaborative partners
A survey of the colours/composition of coatings on tools and implements	Lidcombe	Chemical Criminalistics			FASS
An exploration of the grieving process experienced by bereaved family and/or carers following a suicide as an end of life choice	Lidcombe	Forensic Medicine			FASS
ANZPAA/NIFS - Assessment of the investigate potential of rapid DNA instrument project (NSWPF/FBL desktop exercise)	Lidcombe	Forensic DNA	Neville, Sharon		FASS
Assessing the Temperature Stability of Oral Fluid Samples	North Ryde	Drug Toxicology Unit	Vazquez, Santiago		FASS
Can human amylase be detected in pre-pubescent vaginal secretions? An investigation using an immunological screening test for amylase	Lidcombe	Forensic DNA	Bruce, David		FASS
Comparison between three swab types for the collection of biological material from evidence items	Lidcombe	Forensic DNA	Murray-Swan, Shannon	NSW Police Force	NSW Police Force
Comparison of method for DNA Recovery from fired cartridge cases	Lidcombe	Forensic DNA	Prasad, Elisha	NSW Police Force, University of Technology	NSW Police Force

research projects

Title of Research Project	Clinical Operations Area	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Comparitive analysis of trace DNA results from tape lifting non-porous surfaces compared to swabbing	Lidcombe	Forensic DNA	Bunker, Phillip	NSW Police Force	NSW Police Force
Degradation of duct tape under different environmental conditions	Lidcombe	Chemical Criminalistics			FASS, University of Technology
Detection of foreign DNA under fingernails using Copan microFLOQ swabs and direct PCR	Lidcombe	Forensic DNA	Hitchcock, Catherine*; Poulsen, Felicity		FASS, Copan
Determination of phosphite, phosphate and hyophosphite in water	Lidcombe	Clinical & Environmental Toxicology & Trace Inorganics			FASS
Determination of the presence of fungicides in water (Boscalid and Pyroclostobin)	Lidcombe	Clinical & Environmental Toxicology & Trace Inorganics			FASS
Determination of the presence of Mancozeb and Ethylene Thiourea in water	Lidcombe	Clinical & Environmental Toxicology & Trace Inorganics			FASS

research projects

Title of Research Project	Clinical Operations Area	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Development and validation of an analytical method for screening of new (on market) synthetic cannabinoids in blood by LC-MSMS	Lidcombe	Forensic Toxicology	Pasin, Daniel		FASS
Development of an analytical method for screening and identification of synthetic cannabinoids in blood by LC-QTOF-MS	Lidcombe	Forensic Toxicology	Rebecca Vogel	University of Technology, Sydney	
Development of ExpressTox screening method using G2S LC-QTOF-MS instrument with UNIFI software.	Lidcombe	Forensic Toxicology	McDonald, Catherine		FASS
DNA Profile Extraction from the ABACard Hematrace Kit	Lidcombe	Forensic DNA	Wallis, Louise	NSW Police Force, University of Technology	NSW Police Force, University of Technology
Drowning Study - Post mortem vitreous magnesium in adult population	Newcastle	Forensic Medicine	Cala, Allan;		FASS
Duct tapes - Effect of body decomposition fluids on the ability to analyse and compare	Lidcombe	Chemical Criminalistics			FASS
Environmental monitoring of NSW Police Force Crime Laboratories	Lidcombe	Forensic DNA	Raymond, Jennifer	NSW Police Force	NSW Police Force
Evaluating Early Evidence Kits (EEKs) in Sexual Assault Investigations	Lidcombe	Forensic DNA	Douglas, Rebecca		FASS
Evaluation of direct PCR for profiling samples subjected to intense heat	Lidcombe	Forensic DNA	Raymond, Jennifer	NSW Police Force	NSW Police Force

research projects

Title of Research Project	Clinical Operations Area	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Farm to Pharmacy Project	Lidcombe	Illicit Drugs Analysis Unit			FASS
Forensic reconstructive and associative value of micro- and nano-particle populations	Lidcombe	Chemical Criminalistics			FASS, University of Technology
Garbage bags - Effect of body decomposition fluids on the degradation of bio-degradable vs standard	Lidcombe	Chemical Criminalistics			FASS
GCMS analysis of the background components present on worn clothing	Lidcombe	Chemical Criminalistics			FASS, University of Technology
Hematrace testing of minute blood stains from different surfaces and after cleaning products applied	Lidcombe	Forensic DNA	Evans, Cath	NSW Police Force	NSW Police Force
Investigations into false positives of the BTK on lead based paint	Lidcombe	Chemical Criminalistics	Bunford, Joanna		FASS
Is preparing a smear at the time of sexual assault examination worthwhile?	Lidcombe	Forensic DNA	Nittis, Maria	WSLHD Forensic Medical Units	FASS, WSLHD Forensic Medical Units
Knowledge driven judgements: Understanding DNA success rates towards evidence-based triage and reporting strategies - A NSW study	Lidcombe	Forensic DNA	Sears, Alison	Western Sydney University	FASS, Western Sydney University
Optimisation of DNA profiling from compromised human remains	Lidcombe	Forensic DNA	Watherston, Jeremy	University of Canberra, University of Technology	FASS, University of Canberra

research projects

Title of Research Project	Clinical Operations Area	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
Protocol for locating, extracting, analysis and identifying traces of personal care products on clothing	Lidcombe	Chemical Criminalistics			FASS
Rapid CYBERNOSE detection of illicit drugs and percuror chemicals	Lidcombe	Illicit Drugs Analysis Unit			ARC Linkage Project with supporting and collaborating agencies
Retrospective Review of Polypharmacy Related Fatalities in the Sydney Metropolitan Area During 2015	Glebe	Forensic Medicine			FASS
Study to assess legionella survival and transfer via fomites	Lidcombe	Legionella Reference Laboratory	Anna Smith		FASS
Study to screen for Varenicline in routine testing	Lidcombe	Forensic Toxicology	Bidny, Sergei		FASS
Survey of graffiti paint in the Sydney region, Australia as an aid to interpretation of forensic paint analyses	Lidcombe	Chemical Criminalistics			FASS, University of Technology
Taphonomic effects on DNA degradation in post-mortem body tissues in an Australian setting	Lidcombe	Forensic DNA	Ward, Jodie	University of Technology & Universite du Quebec a Trois-Rivieres	UTS & FASS

research projects

Title of Research Project	Clinical Operations Area	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
The Detection and Recovery of Foreign Biological Fluids from the Clothing of Deceased Humans Post Decomposition	Lidcombe	Forensic DNA	Hitchcock, Catherine		FASS, University of Technology
Types/colours of fibres found on cinema seats in Sydney in summer/winter	Lidcombe	Chemical Criminalistics			FASS
Understanding and addressing families' needs within the Coronial system: A multiphase study to improve systems and outcomes for suddenly bereaved people in New South Wales	Newcastle	Forensic Medicine			FASS, University of Newcastle
Validation of an LC-MS/MS instrument to be used as a screening method	North Ryde	Drug Toxicology Unit	Vazquez, Santiago		FASS
Validation of analysis of cannabis oil	Lidcombe	Illicit Drugs Analysis Unit	Coghlan, Daniel		FASS
Validation of GeneMapper v1.5 as an expert system for person samples	Lidcombe	Forensic DNA	Dockery, Clare		FASS
Validation of YfilerPlus Y-STR amplification kit for FTA and casework sample processing	Lidcombe	Forensic DNA	Hitchcock, Catherine		FASS
Verification of FT200 method using XEVO G2-S instrument with MassLynx-TargetLynx software	Lidcombe	Forensic Toxicology	Bidny, Sergei		FASS
Weathering of vehicle and architectural paints over time	Lidcombe	Chemical Criminalistics			FASS, University of Technology

research projects

Title of Research Project	Clinical Operations Area	Therapeutic Area	Chief Investigator (CI)	Collaborating (Partner) Institutions	Funded by
WinLims to be implemented in the laboratory	North Ryde	Drug Toxicology Unit	Vazquez, Santiago		FASS
Y-STR analysis of endocervical swabs with a long time since intercourse	Lidcombe	Forensic DNA	Franco, Michele		FASS

students

Student Name	Supervisor	Degree Type	End Date	University Enrolled in	Affiliated Institution
Samara Garrett-Rickman	Ward Jodie (FASS), Peter Gunn (UTS), Shari Forbes (UTS)	PhD	31/12/2020	University of Technology	
Jeremy Watherston	Bruce David (FASS); Ward Jodie (FASS), Dennis McNevin (CU)	PhD	31/12/2022	Universtiy of Canberra	
Travis Ruan	Bruce David (FASS), Peter Gunn (UTS)	Masters	31/12/2016	University of Technology	
Daliya Sari	Bruce, David; Hitchcock, Catherine	Undergraduate Honors	31/12/2019	Oceania University	
Student	Joanna Bunford	Undergraduate Honors	31/12/2018	University of Technology	
Student	Joanna Bunford	Masters	31/12/2018	University of Technology	
Student	Peter Ballard	Undergraduate Honors	31/12/2018	University of Technology	
Student	Peter Ballard	Undergraduate Honors	31/12/2018	University of Technology	
Student	Joanna Bunford	Undergraduate Honors	31/12/2018	University of Technology	
Alison Sears	Sharon Neville (FASS), Chris Lennard (WSU)	Masters	31/12/2022	Western Sydney University	
Rebecca Vogel	Bidny, Sergei	Undergraduate Honors	30/11/2018	University of Technology, Sydney	
Elisha Prasad	van Oorschot, Roland (Vic Pol), Raymond, Jennifer (NSW Police), McNevin Dennis (UTS), Gunn Peter (UTS), Barash, Mark (UTS), Hitchcock, Catherine (FASS)	PhD	31/12/2020	University of Technology, Sydney	NSW Police Force, Victorian Police Force

students

Student Name	Supervisor	Degree Type	End Date	University Enrolled in	Affiliated Institution
Lelita Pienaar	McNevin, Dennis (UTS), Ward, Jodie (UTS), Hitchcock, Catherine (FASS)	Undergraduate Honors	31/12/2020	University of Technology, Sydney	NSW Police Force
Louise Wallis	Gunn, Peter (UTS), Raymond, Jennifer (NSW Police), McNevin, Dennis (UTS), Hitchcock, Catherine (FASS)	Undergraduate Honors	30/06/2019	University of Technology, Sydney	NSW Police Force

statewide biobank

A vital new resource for medical research. In 2017, the NSW Government invested \$12 million to create the biobank to support world-class health and medical research across the state.

Providing access to the largest collections of human samples in Australia, it helps researchers improve the way disease is detected, diagnosed and treated. Biobanks are vital to modern medical research and our evolving knowledge of health and disease.



Graig Gedye
Clinical Research Director,
Biobanking Services

“ In 2018, the biobank engaged with a diverse set of clients from commercial, academic, single-site and multi-site collaborations, continued developing a Certification program for biobanking in NSW and provided ongoing assistance to OHMR for development of the organisational structure for biobanking in NSW; recognising the need to assist teams with infrastructure and assets like Material Transfer Agreements, Ethically Defensible Plans, Plain English Consent Toolkits and policy for Return of Incidental Findings ”

publication in focus



Journal citation – Biopreservation and Biobanking 2018; 16(1):53-58.

Title – An Australian Biobank Certification Scheme: A Study of Economic Costs to Participating Biobanks

Authors – Rod Ling, Amanda Rush, Candace Carter, Jane Carpenter, Peter H Watson, Jennifer A Byrne and Andrew Searles.

Study outcome

Biobanks face increasing demands for research materials of consistent quality, which can be used in collaborative studies. This study aimed to estimate the costs of gaining certification and maintaining certification (i.e., committing extra resources to continue standards) for three cancer biobanks participating in a biobank certification program in New South Wales, Australia. The biobank with the highest staff level reported the lowest expected costs in gaining certification, due to the strong prealignment of its present operations with certification requirements. Overall, relative costs of gaining certification were between 2% and 6% of current total annual wage costs.

publications

Nº	Publication Type	Publication Title	Authors	Citation
1	Original Peer Reviewed	A Review of the National Canadian Tissue Repository Network Required Operational Practice Standards and the Controlled Documents of a Certified Biobank.	Hartman V, Castillo-Pelayo T, Babinszky S, Dee S, Leblanc J, Matzke L, O'Donoghue S, Carpenter J, Carter C, Rush A, Byrne J, Barnes R, Mes-Messons AM and Watson P.	Biopreserv Biobank 2018;16(1):36-41
2	Original Peer Reviewed	An Australian Biobank Certification Scheme: A Study of Economic Costs to Participating Biobanks	Ling R, Rush A, Carter C, Carpenter J, Watson PH, Byrne JA and Searles A	Biopreserv Biobank 2018;16(1):53-58
3	Original Peer Reviewed	Research governance review of a negligible-risk research project: Too much of a good thing?	Rush A, Ling R, Carpenter JE, Carter C, Searles A and Byrne J.	Research Ethics 2018; 14(3)

”



contacts

Clinical Positions		
Position/Discipline	Name	Email
Clinical Stream Leads:		
Anatomical Pathology	Paul McKenzie	paul.mckenzie@health.nsw.gov.au
Chemistry	Margaret Janu	margaret.janu@health.nsw.gov.au
Haematology	Elizabeth Tegg	elizabeth.tegg@health.nsw.gov.au
Immunology	Theo de Malmanche	theo.demalmanche@health.nsw.gov.au
Microbiology	Sharon Chen	sharon.chen@health.nsw.gov.au
Transfusion	Mark Dean	mark.dean@health.nsw.gov.au
Clinical Services Directors:		
Genomics	Cliff Meldrum	cliff.meldrum1@health.nsw.gov.au
Point of Care	Andrew Sargeant	andrew.sargeant@health.nsw.gov.au
Pre- & Post Analytical	Judith Kempton-Webb	judith.kemptonwebb@health.nsw.gov.au
Public Health	Dominic Dwyer	dominic.dwyer@health.nsw.gov.au
Statewide Service Directors:		
FASS	Michael Symonds	michael.symonds@health.nsw.gov.au
NSW Health Statewide Biobank	Jennifer Byrne	jennifer.byrne@health.nsw.gov.au

contacts

Research Activity Report 2018		
Name	Title	Email
Bente Talseth-Palmer	Research Support Project Officer	bente.talsethpalmer@health.nsw.gov.au
Amanda Koegelenberg	Research & Innovation Program Director	amanda.koegelenberg@health.nsw.gov.au
Taylor O'Brien	Strategic Communications	taylor.obrien@health.nsw.gov.au

Research & Innovation Team		
Position/Discipline	Name	Email
Chief Executive	Tracey McCosker PSM	tracey.mccosker@health.nsw.gov.au
Executive Director, Clinical Governance & Quality	Professor Roger Wilson	roger.wilson@health.nsw.gov.au
Research & Innovation Program Director	Amanda Koegelenberg	amanda.koegelenberg@health.nsw.gov.au
Research Support Project Officer	Bente Talseth-Palmer	bente.talsethpalmer@health.nsw.gov.au
Innovation Project Officer	Natasha Claxton	natasha.claxton@health.nsw.gov.au
Research Governance Officer	Andrew Harre	andrew.harre@health.nsw.gov.au
Research Activity Register	Bente Talseth-Palmer	nswpath-research@health.nsw.gov.au

disclaimer

The data presented in this report is taken from NSW Health Pathology's Research Activity Register for the year 2018. It may not present the complete picture of the research involvements of all NSWHP staff.

acknowledgements

We would like to take the time to thank all the people who have contributed to this report.

- **Report development:** Bente Talseth-Palmer, Research Support Project Officer.
- **Research Activity Register:** Jessica Shepherd, ICT Support Officer
- **Strategic Communications:** Taylor O'Brien, Communication Assistant.
- **Clinical Streams (Research) Leads:** Stephen Adelstein (Immunology), David Sullivan (Clinical Chemistry), Catherine Hitchcock (FASS), James Kench (Anatomical Pathology), Sharon Chen (Microbiology), Emmanuel Favaloro/Leonardo Pasalic (Haematology), Dominic Dwyer (Public Health Pathology)
- **Clinical Services Leads:** Kristen Palmer (Genomics Project Officer)
- **2018 Clinical Trials (Services Data):** Tony Kay, Karla Jerez, Hayter Wong, Naheela Lalee, Zarah Timbol and Marette Dean.

Finally, a huge thank you to all the researchers across NSW Health Pathology who have taken the time to enter data into the Research Activity Register. Your ongoing involvement in leading and supporting research underpins our purpose to ‘create a better health and justice systems’ and is a true reflection of our vision to Connect, Pioneer and more importantly Care.

Leading through innovation and collaboration to deliver excellence in service and outcomes.



for all of
us

donate to our research

No matter how big or small, a donation to NSW Health Pathology's Research Fund will help us create a better health and justice system.

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Level 5, 45 Watt Street

Newcastle, NSW 2300

T: 02 4920 4000

E: nswpath-research@health.nsw.gov.au

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