

MMM2018

Molecular Microbiology Meeting

11-12 April



Message from the Convener

Welcome to MMM, back on a biennial schedule after the last annual meeting in 2016.

This meeting has been convened by Keith Stanley since its inception about a decade ago as a premier venue for emerging biotechnology, particularly in microbial diagnostics and we owe him a debt of gratitude for its success.

MMM2018 is directly and generously supported by our colleagues in diagnostics and biotechnology and by our supporting partner the Australian Society for Microbiology as well as the Australasian Genomic Technologies Association, and the NSW Government Office of the Chief Scientist and Engineer. We are grateful to all our colleagues who have travelled to support this meeting and come to discuss their work.

We acknowledge and pay our respects to the traditional custodians of the country on which we stand and our responsibility to respect and care for country, people and spirit.

Jon Iredell

Meeting Committee: Jeremy Barr, Mitchell Brown, Andrew Ginn, Ruby Lin, Emily Mascord and Deborah Williamson

Program Day 1: Wednesday 11th April

0900-0945	Registration/Tea & Coffee
0945-0950	Welcome – Jon Iredell
Needles and ha	ystacks; Chairs Ruby Lin/Karen Weynberg
0950-1010 (20m)	John-Sebastian Eden (WIMR): Exploring the Australian Virome
1010-1020 (10m)	Biotech innovation 1 (Illumina): Gavin Wilkie, NGS Applications in Microbiology
1020-1100 (40m)	Vanessa Hayes (Garvan): Precision medicine and the human microbiome
1100-1130 (30m)	Morning Tea
Pathogen tracki	ng; Chairs Sally Partridge/Elena Martinez
1130-1140 (10m)	New methods 1: Matthew O'Sullivan (CIDM, NSW Health Pathology) Binary typing for detecting outbreaks of hospital acquired infection
1140-1220 (40m)	Amy Mathers (University of Virginia): Scratching the surface: What WGS reveals about how much more there is to learn about mobile resistance genes
1220-1230 (10m)	Biotech innovation 2 (Cepheid): Jason Nonweiler, Next Generation Xpert MTB/RIF Ultra: Early Experience in a Low Burden Setting
1230-1250 (20m) 1250-1340 (50m)	Claire Gorrie (Doherty/University of Melbourne): Klebsiella pneumoniae transmission, evolution, and resistance acquisition Lunch

Program Day 1: Wednesday 11th April

Afternoon sessions

Bacteriophaaes	; Chairs Sandra Morales	/Erin Price

Karen Weynberg (University of Queensland): Synthetic				
Biology in the Phage age				
Jeremy Barr (Monash University): Phage-eukaryote				
interactions				
Biotech innovation 3 (Hologic): Deborah Williamson, Using				
genomics to understand the transmission of STIs				
Carola Venturini (WIMR): Rational design for bacteriophage				
therapy				
Sandra Morales (AmpliPhi): Clinical Bacteriophage Therapy in				
the 21st Century				
Afternoon Tea				
ology and public health; Chairs Amy Mathers/Claire Gorrie				
Susan Ballard (Doherty/MDU): NATA accredited WGS in				
clinical and public health labs				
Biotech innovation 4 (AusDiagnostics): Keith Stanley, Unique				
properties of AusDiagnostics assays allows survey of novel				
sequences in global pathogens				
New methods 2: Elena Martinez (CIDM-Public Health): Real				
time WGS for TB				
New methods 3: Diana Wong (Prince of Wales): Longitudinal				
monitoring of ganciclovir levels to optimize cytomegalovirus				
therapy in renal transplants				
Poster session: drinks and canapes				

Program Day 2: Thursday 12th April

0815-0855	Registration/Tea & Coffee				
0855-0900	Welcome – Jon Iredell				
New ways of lo	ooking at things; Chairs Carola Venturini/Diana Wong				
0900-0920	Linda Varadi (CSIRO Melbourne): Renaissance of the Gold-				
(20m)	standard				
0920-1000	Cynthia Whitchurch (UTS): In the groove: Pseudomomas up				
(40m)					
1000-1010	Biotech innovation 5 (SpeeDx): Litty Tan, Genital lesion				
(10m)	producing pathogens diagnosed using PlexPCR				
1010-1020 (10m)	New methods 4: Rohan Beresford (Liverpool Hospital): CIM for detecting CPEs				
1020-1040	Noushin Nasiri (UTS): Just a puff of breath – identifying and				
(20m)	preventing disease with breath analysis				
1040-1050	New methods 5: Matthew Watts (NSW Health Pathology):				
(10m)	Loop-mediated Isothermal Amplification (LAMP) in the				
	diagnostic lab				
1050-1115	Morning tea				
(25m)					
Alphabet soup;	Chairs Nouri Ben Zakour/Rohan Beresford				
1115-1155	Maurizio Labbate (University of Technology Sydney):				
(40m)	Antibiotic Resistance Gene Reservoirs in a Sewage-Impacted				
	Coastal Environment				
1155-1205	Biotech innovation 6 (bioMérieux): James Branley, Clinical and				
(10m)	Laboratory Use of BioFire ME in a hospital setting				
1205-1245	Sally Partridge (WIMR): Mobile AMR plasmids in the				
(40m)	Enterobacteriaceae				
1245-1300	Deborah Williamson (MDU PHL/Doherty): The future of public				
(15m)	health and microbiology				
1300-1320	State-of-the-art 1: Muhammad Kamruzzaman (WIMR): Curing				
(20m)	AMR in vivo				
1320-1405	Lunch				
(45m)					

Program Day 2: Thursday 12th April Afternoon sessions

Back to basics;	Chairs Jon Iredell/Noushin Nasiri
1405-1425 (20m)	Tara Djokic (University of NSW): A first and last outpost for life on mars? Insights from ancient hot springs in the Pilbara
1425-1505 (40m)	lan Paulsen (Macquarie University): The future of synthetic biology: building a eukaryotic machine
1505-1525 (20m)	State-of-the-art 2: Catriona Halliday (NSW Health Pathology): Mycology diagnostics
1525-1545 (20m)	Erin Price (USC): Integrating genomics and transcriptomics to understand Burkholderia pseudomallei evolution in the cystic fibrosis lung
1545-1605 (20m)	Afternoon tea
Modern plagues	s; Chairs Maurizio Labbate/Honghua Hu
Modern plague: 1605-1625 (20m)	s; Chairs Maurizio Labbate/Honghua Hu Sebastian van Hal (RPA Hospital): Diversity and evolution in VRE
1605-1625	Sebastian van Hal (RPA Hospital): Diversity and evolution in
1605-1625 (20m) 1625-1635	Sebastian van Hal (RPA Hospital): Diversity and evolution in VRE Biotech innovation 7 (Genetic Signatures): Doug Millar, Irish evaluation of the EasyScreen [™] ESBL/CPO Detection Kit Using

All presenters are listed on the following pages in alphabetical order (surname) International guest, Keynotes, Speakers and Chairs.



Associate Professor Amy Mathers Associate Professor of Medicine and Pathology, School of Medicine, University of Virginia Director, Adult Antimicrobial Stewardship Program Associate Director, Clinical Microbiology, University of Virginia Health System



Dr Susan Ballard

Principal Scientist, Microbiological Diagnostic Unit Public Health Laboratory (MDU PHL), The Peter Doherty Institute of Infection and Immunity, The University of Melbourne



Professor Vanessa Hayes Petre Chair of Prostate Cancer Research, University of Sydney Head and Professor, Laboratory for Human Comparative and Prostate Cancer Genomics, Garvan Institute of Medical Research.



Associate Professor Maurizio Labbate Associate Professor of Microbiology, School of Life Sciences, University of Technology Sydney



Associate Professor Sally Partridge

Senior Hospital Scientist, Centre for Infectious Diseases and Microbiology/The Westmead Institute for Medical Research, Westmead Hospital Honorary Principal Research Fellow (Sydney Medical School), University of Sydney.



Professor lan Paulsen

Distinguished Professor, Macquarie University Director, Synthetic Biology Laboratory, Macquarie University Deputy Director, Macquarie Biomolecular Discovery and Design Centre



Professor Cynthia Whitchurch The ithree Institute Core Member, ithree - Institute of Infection, Immunity and Innovation



Dr Jeremy Barr Lecturer & Group Leader, School of Biological Sciences Monash University



Dr Rohan Beresford

Microbiology Registrar, NSW Health Pathology, Department of Microbiology and Infectious Diseases, Liverpool Hospital



Associate Professor James Branley NSW Health Pathology Nepean Adjunct Associate Professor with the University of Sydney



Tara Djokic

PhD Candidate, School of Biological, Earth and Environmental Sciences, Australian Centre for Astrobiology PANGEA Research Centre, University of New South Wales



Dr John-Sebastian Eden

Research Scientist in Bioinformatics and Genomics Centre for Virus Research, The Westmead Institute for Medical Research



Claire Gorrie

Holt Lab, Dept of Biochemistry and Molecular Biology, Bio21 Molecular Science and Biotechnology Institute, The University of Melbourne Microbiological Diagnostic Unit Public Health Lab, Department of Microbiology and Immunology, The University of Melbourne, at the Doherty Institute for Infection and Immunity



Dr Catriona Halliday

Senior Hospital Scientist – Mycology, NSW Health Pathology Clinical Mycology Reference Laboratory, Institute for Clinical Pathology and Medical Research, Westmead Hospital



Dr Muhammad Kamruzzaman

Research Scientist, Centre for Infectious Diseases and Microbiology, The Westmead Institute for Medical Research



Dr Elena Martinez Postdoctoral Research Fellow, Centre for Infectious Diseases and Microbiology – Public Health



Dr Christopher Mclver

Principal Hospital Scientist in the Microbiology Department, St. George Hospital Conjoint Associate Professor in the School of Medical Science, University of New South Wales



Dr Doug Millar Chief Scientific Officer, Genetic Signatures



Dr Sandra Morales Vice President of Research, AmpliPhi Biosciences



Dr Noushin Nasiri

Postdoctoral Research Fellow, Initiative for Biomedical Materials & Devices (IBMD) School of Mathematical and Physical Sciences Faculty of Science, University of Technology Sydney



Jason Nonweiler Territory Sales Executive, Cepheid ANZ



Dr Matthew O'Sullivan

Senior Staff Specialist, Centre for Infectious Diseases and Microbiology, NSW Health Pathology, Westmead Hospital Clinical Senior Lecturer, Sydney Medical School, The University of Sydney



Dr Erin Price USC Senior Research Fellow Faculty of Science, Health, Education and Engineering University of the Sunshine Coast



Dr Keith Stanley Managing Director, AusDiagnostics



Dr Litty Tan Director of Research and Development, SpeeDx



Associate Professor Sebastian van Hal Senior Staff Specialist Department Microbiology and Infectious Diseases, Royal Prince Alfred Hospital



Dr Linda Varadi OCE Postdoctoral Fellow, Manufacturing Nanomaterials and Surface Design Team CSIRO



Dr Carola Venturini

Postdoctoral Researcher, Center for Infectious Diseases and Microbiology, The Westmead Institute for Medical Research



Dr Matthew Watts

Staff Specialist in Infectious Diseases and Microbiology Clinical Lecturer, Sydney Medical School Centre for Infectious Diseases and Microbiology, ICPMR - NSW Health Pathology Marie Bashir Institute for Infectious Diseases and Biosecurity, University of Sydney



Dr Karen Weynberg CSIRO/UQ Future Science Synthetic Biology Fellow School of Chemistry & Molecular Biosciences, University of Queensland

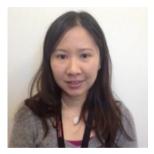


Dr Gavin Wilkie Application Scientist, Illumina



Dr Deborah Williamson

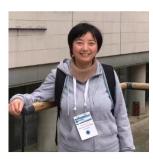
Deputy Director, Microbiological Diagnostic Unit Public Health Laboratory (MDU PHL) The Peter Doherty Institute for Infection and Immunity



Diana Wong PhD candidate UNSW, Virology Research Laboratory Prince of Wales Hospital



Dr Nouri Ben Zakour Senior Bioinformatician, The Westmead Institute for Medical Research, The University of Sydney



Honghua (Helen) Hu Research Fellow, Surgical Infection Research Group Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, Macquarie University



Professor Jon Iredell

Conjoint Professor of Medicine and Microbiology, University of Sydney Senior staff specialist, Infectious Diseases and Microbiology, Westmead Hospital and NSW Pathology Immediate Past President, Australian Society of Microbiology



Associate Professor Ruby Lin

Project Manager, Centre for Infectious Diseases and Microbiology, The Westmead Institute for Medical Research

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Public Lecture

Prof. Nicholas Graves - AusHSI

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key dates

- 19 Feb Registration / Abstracts open 20 April Earlybird / Oral Abstract
- deadlline 18 May Poster Abstract deadline

Poster session: Wednesday 11th April 1630-1800

Authors	Affiliations	Poster title
Zainab A. Al-Juiafari, 1 Aviva	1 School of Chemistry; 2Vibrational	The role of heavy metals
Levina,1 Rachel Mak,1	Spectroscopy Core Facility; 3Marie	in immune system
Joonsup Lee,1,2 Julianne J.	Bashir Institute, 4Vascular Immunology,	interaction with
Djordjevic,3 Pierre-Georges	Department of Pathology, Sydney	pathogen
Juillard,4 Si Chen,6 Stefan	Medical School, and 5AINST, University	
Vogt,6 Tania C. Sorrell, 3 Georges E. Grau,3,4,5 Peter A.	of Sydney; 6Advanced Photon Source,	
Lay,1,2,3,5	Argonne National Laboratory, Argonne,	
	Illinois, USA	
Nicole Carnt ¹ , Debarun Dutta ¹ ,	¹ School of Optometry and Vision	A pilot study of the
Priyal Mistry ¹ , DaeNia La	Science, University of NSW, ² Flinders	distribution of
Rode ¹ , Paul Badenoch ^{2,} Simon	Medical Centre, ³ Ophtecs Corporation,	Acanthamoeba species
Kilvington ³	Kobi, Japan	in Sydney domestic sinks
Theerthankar Das1 and Jim		Role of Pseudomonas
Manos]	1 Department of Infectious Diseases and	
	Immunology, Sydney Medical School,	aeruginosa virulence
	University of Sydney, Sydney 2050,	factor pyocyanin in
Saniay S. Gautam] Michoál	Australia	biofilm formation
Sanjay S. Gautam ¹ , Micheál	¹ School of Medicine, University of	Tracking the Origin and
Mac Aogáin ² , Louise A.	Tasmania, Hobart, Tasmania, Australia,	Spread of Tuberculosis in
Cooley ³ , Greg Haug ⁴ , Janet A.	² Department of Clinical Microbiology,	Tasmania using Whole
Fyfe ⁵ , Maria Globan ⁵ , Ronan F.	Trinity College Dublin, Dublin, Ireland,	Genome Sequencing
O'Toole ^{1,2}	³ Royal Hobart Hospital, Hobart,	
	Tasmania, Australia, ⁴ Launceston	
	General Hospital, Launceston, Tasmania,	
	Australia, ⁵ Mycobacterium Reference	
	Laboratory, Victoria Infectious Diseases	
	Reference Laboratory, Peter Doherty	
	Institute, Melbourne, Victoria, Australia.	
Honghua Hu ^{1,2} , Khalid Johani ¹ ,	¹ Faculty of Medicine and Health	A comparison of the
Samantha L. Sundercombe ² ,	Sciences, Macquarie University, NSW,	microbiomes of lung of
Mark Elkins ³ , Peter Bye ^{3,4} , Jim	2109, Australia	cystic fibrosis and
Manos ² , Barbara Rose ² , Colin	² Department of Infectious Diseases and	bronchiectasis patients
Harbour ² and Karen Vickery ¹	Immunology, University of Sydney,	
	NSW, 2006, Australia	
	³ Department of Medicine, University of	
	Sydney, NSW, 2006, Australia	
	⁴ Department of Respiratory Medicine,	
	Royal Prince Alfred Hospital, NSW,	
	2006, Australia	

Poster session: continued

Authors	Affiliations	Poster title
Catherine Janto ¹ , Sandra Jones ¹ , Rifky Balgahom ¹ , Harsha Samarasekara ¹ , James Branley ¹	¹ Department of Microbiology and Infectious Diseases, NSW Health Pathology, Nepean Hospital, Penrith NSW. ² Infectious Diseases and Microbiology, University of Sydney.	One hour detection of organisms from positive blood culture broth using the Biofire Filmarray blood culture identification panel
Catherine Janto ¹ , Rifky Balgahom ¹ , Harsha Samarasekara ¹ , and James Branley ^{1,2}	¹ Department of Microbiology and Infectious Diseases, NSW Health Pathology, Nepean Hospital, Penrith NSW. ² Infectious Diseases and Microbiology, University of Sydney. bioMérieux Australia	One hour detection of clinically significant pathogens from cerebrospinal fluid using the Biofire Filmarray meningitis/encephalitis panel
Sangeeta Khadka ¹ , Silvana Bettiol ² , Lyn Goldberg ³ , Anna King ³ , Leonard Crocombe ¹	¹ Centre for Rural Health, ² School of Medicine, ³ Wicking Dementia Centre, University of Tasmania	Comparison of DNA Extraction and Quantification Methods to Analyse Bacterial Load in Oral Cavity.
Dmitry Kuevda, Keith Stanley, Darren Jardin, Shane Byrne	AusDiagnostics, Microbiology/pathology, St Vincent's Melbourne Hospital, Sullivan Nicolaides Pathology, Brisbane	Molecular diagnostics of bacterial vaginosis and candidiasis. Panel design and validation studies.
lan Marsh ¹ , Jessica Boyes ² , Karren Plain ^{2,} Martina Jelocnik ³ , Adam Polkinghorne ³ , Leah Stroud ¹ and Narelle Sales ¹	 ¹ Microbiology and Parasitology, Elizabeth Macarthur Agricultural Institute, NSW Department of Primary Industries ² Faculty of Veterinary Science, University of Sydney ³ Faculty of Science, Health, Education and Engineering, University of the Sunshine Coast 	Rapid detection and differentiation of Mycobacterium avium subsp. paratuberculosis strains and Chlamydiaceae species using qPCR and benchtop pyrosequencing
Elaine McGrath ¹ , Martin Cormican ¹ , Kirsten McGlouglin ² , John Melki ³ , Dilshan Abeysekera ³ , and Douglas Millar ³	National CPE Reference Laboratory, Galway, Ireland and Medical Supply Company, Dublin, Ireland	Evaluation of the EasyScreen [™] ESBL/C PO Detection Kit Using Primary Patient Swabs
Balazs, K., Najib E., Groundwater, P. W.	University of Sydney, Australia	Rapid detection of pathogenic bacteria via fluorescent probes

Poster session: Wednesday 11th April 1630-1800

Anthony	A ffilt of and	Destas tita
Authors	Affiliations	Poster title Detection of EBV from
Paola Quinones, Huyet Luu,	Hologic Inc., 10210 Genetic Center	
Amber Hillius, Manisha C.	Drive, San Diego, CA 92121 USA	plasma and serum
Yadav, Anne-Laure Shapiro,		specimens using a fully
Marcela A. Carvallo Pinto,		automated laboratory
Ankur H. Shah, and Daniel P.		developed test
Kolk		
Leah W. Roberts ^{1,2} , Patrick	¹ School of Chemistry and Molecular	Integration of Whole
Harris ^{3,4} , Brian M. Forde ^{1,2} ,	Biosciences, ² Australian Infectious	Genome Sequencing to
Graeme Nimmo ⁴ , Narelle	Disease Research Centre, University of	investigate an outbreak
George ⁴ , Krispin Hajkowicz ⁵ ,	Queensland, Brisbane QLD, ³ UQ Centre	of carbapenem-resistant
Jeff Lipman ⁶ , Mark A.	for Clinical Research, Brisbane QLD,	Acinetobacter baumannii
Schembri ^{1,2} , David Paterson ^{3,5} ,	⁴ Pathology Queensland, Central	(CRAB) in a Brisbane
Scott A. Beatson ^{1,2}	Laboratory, Brisbane, QLD, ⁵ Unit of	Intensive Care Unit
	Infectious Diseases, Royal Brisbane and	
	Women's Hospital, Herston, Queensland,	
	Australia and ⁶ Burns Trauma and Critical	
	Care Research Centre, The University of	
	Queensland Australia.	
Dinesh Subedi ¹ , Ajay Kumar	¹ School of Optometry and Vision	Phenotypic and
Vijay ¹ , Scott A. Rice ^{2,3,4} , and	Science, University of New South Wales,	genotypic
Mark Willcox ¹	Kensington, NSW, Australia	characterisation of a
	² Centre for Marine Bio-Innovation,	multi-drug resistant
	University of New South Wales, Sydney,	ocular isolate of
	Australia	Pseudomonas aeruginosa
	³ The School of Biological Sciences,	
	Nanyang Technological University,	
	Singapore	
	⁴ Singapore Centre for Environmental	
	Life Sciences Engineering, Nanyang	
	Technological University, Singapore	
Jinlong Tan, Linda Váradi,	University of Sydney, Australia	Enhancing Gram-
David E Hibbs, Paul W	, , ,,	negative uptake of
Groundwater		potential antibacterials
Litty Tan, Director R&D SpeeDx	SpeeDx	Updated Australian STI
		Management Guidelines
		for NGU: Implementation
		of Mycoplasma
		genitalium resistance
		°
		testing

Poster session: continued

Authors	Affiliations	Poster title
Zheng Xu ¹ , Sophie Octavia ¹ ,	¹ School of Biotechnology and	Molecular epidemiology
Laurence Don Wai Luu ¹ ,	Biomolecular Sciences, University of New	of the 2013-2017
Michael Payne ¹ , Verlaine	South Wales, Sydney, New South	pertussis epidemic in
Timms ^{2,3} , Chin Yen Tay ⁴ ,	Wales, Australia	Australia
Anthony D Keil ⁵ , Vitali	² Centre for Infectious Diseases and	Australia
Sintchenko ^{2,3} , Nicole Guiso ⁶ ,	Microbiology–Public Health, Institute of	
Ruiting Lan ^{1,*}	Clinical Pathology and Medical	
	Research, Westmead Hospital, New	
	South Wales, Australia ³ Marie Bashir Institute for Infectious	
	Diseases and Biosecurity, The University	
	of Sydney, New South Wales, Australia	
	⁴ Pathology and Laboratory Medicine,	
	University of Western Australia, Perth,	
	Western Australia, Australia	
	⁵ Department of Microbiology, PathWest	
	Laboratory Medicine WA, Princess	
	Margaret Hospital for Children, Perth,	
	Australia	
	⁶ Molecular Prevention and Therapy of	
	Human Diseases, Institut Pasteur, Paris, France	
Grace J. Yan ¹ , Jennifer H. Lun ¹ ,	¹ School of Biotechnology and	Emergence of norovirus
Daniel Enosi Tuipulotu ¹ , Leigh	Biomolecular Sciences, Faculty of	recombinant strain
Morrell ¹ and Peter A. White ¹		
Morrell' and Pefer A. White'	Science, University of New South Wales,	Gll.P16/Gll.4 Sydney
	Sydney, NSW, Australia 2012 in New South	
		Wales, 2017
Yasir M1, Dutta D1, Willcox MD1	School of Optometry and Vision Science,	The role of antimicrobial
MDT	The University of New South Wales, Australia	peptides in reducing
		bacterial biofilms
Xiaomei Zhang ¹ , Michael	¹ School of Biotechnology and	Identification of
Payne ¹ , Qinning Wang ² , Vitali	Biomolecular Sciences, University of New South Wales, Sydney, New South	serovars' specific genes
Sintchenko ^{2,3} , Ruiting Lan ¹	Wales, Australia ² Centre for Infectious	for typing the five most
	Diseases and Microbiology–Public	prevalent Salmonella
	Health, Institute of Clinical Pathology	serovars in Australia
	and Medical Research, Westmead	
	Hospital, New South Wales, Australia	
	³ Marie Bashir Institute for Infectious	
	Diseases and Biosecurity, The University	
	of Sydney, New South Wales, Australia	

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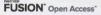
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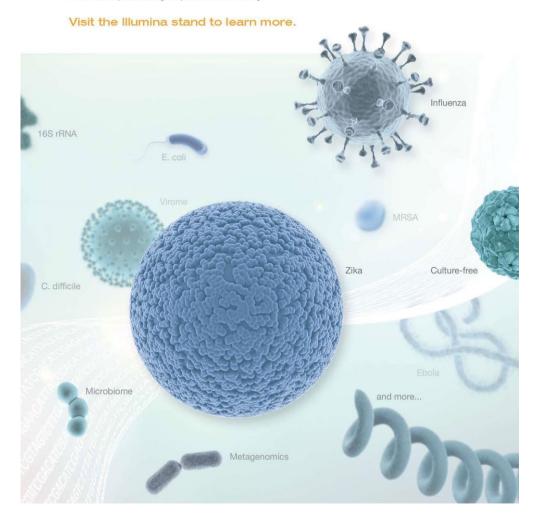
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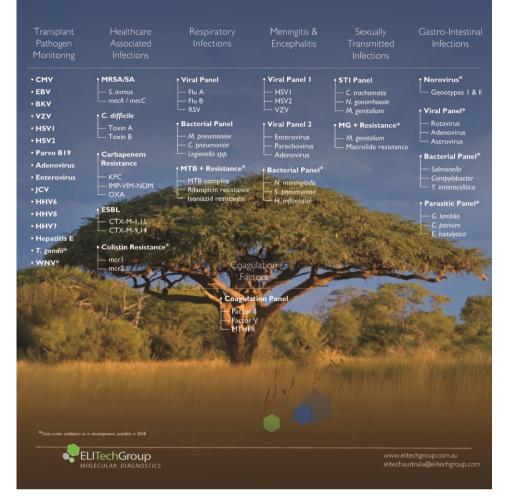
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* Not for sale in USA.

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Fully Automated Sample-to-Result System



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For more information MMM2018 E critical.infection@sydney.edu.au