

**CURRICULUM VITAE
GWENDOLYN LESLEY GILBERT**

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**CURRICULUM VITAE
GWENDOLYN LESLEY GILBERT**

ACADEMIC QUALIFICATIONS

- MBBS, University of Melbourne, 1965
 - Graduated with honours in all subjects (Equal 3rd in class list)
- Member, Royal Australasian College of Physicians, 1969
- Fellow, Royal Australasian College of Physicians (FRACP), 1974
- Fellow, Royal College of Pathologists of Australasia (FRCPA), 1977
- Member, Australian College of Paediatrics, 1984
- MD, University of Melbourne, 1990
 - Thesis entitled "Infectious Diseases in Pregnancy and the Newborn Infant"
 - (comprised approximately 30 original publications and book manuscript).
- Fellow, Australian Society for Microbiology (FASM), 1990.
- Master of Bioethics, Monash University, 2004

POSITIONS HELD

Current: 2016-9

- Conjoint Professor, Sydney Medical School, University of Sydney (2016-8)
- Senior researcher: Marie Bashir Institute for Infectious Diseases and Biosecurity (2012-current)
- Senior associate: Sydney Health Ethics (formerly Centre from Values, Ethics and the Law in Medicine (2013- current)
- Consultant Emeritus, Westmead Hospital (2016)
- Honorary Professor, University of Sydney; Sydney Medical School (2018-current)

Recent:

- Clinical Lead in Infection Prevention and Control; Western Sydney Local Health District (2010-16)
- Senior staff specialist, Centre for Infectious Diseases and Microbiology, Institute of Clinical Pathology & Medical Research (ICPMR), Westmead Hospital (1991-2016)
- Clinical Professor in Medicine, University of Sydney (since 1991-2016)
- Director, Centre for Infectious Diseases and Microbiology-Public Health (2003-13)
- Director, Centre for Infectious Diseases and Microbiology Laboratory Services, Institute of Clinical Pathology and Medical Research, Westmead, NSW (1991-2010)

Past: 1966-1991

- 1966: Resident Medical Officer, Royal Melbourne Hospital
- 1967: Resident Medical Officer, Royal Children's Hospital, Melbourne
- 1968-70: Medical Registrar, Fairfield Infectious Diseases Hospital, Melbourne
- 1971-72: Microbiology Registrar (part-time), Fairfield Infectious Diseases Hospital, Melbourne
- 1973: Assistant Clinical Microbiologist (part-time; May-September) St. Luke's Hospital, Bradford, Yorkshire, U.K.
- 1973-74: Acting Medical Virologist (part-time; November-November), Public Health Laboratory, Norwich, Norfolk, U.K.
- 1975: Demonstrator, Medical Microbiology (part-time), Department of Microbiology, University of Melbourne.
- 1976-78: Senior Lecturer (part-time), Department of Microbiology, University of Melbourne.**
- 1976-84: Honorary Consultant in Microbiology, Royal Children's Hospital, Melbourne.
- 1979-84: Staff Specialist/Director of Microbiology, Royal Women's Hospital, Melbourne**
- 1979-91: Senior Associate, Department of Microbiology, University of Melbourne
- 1979-84: Senior Associate, Department of Obstetrics and Gynaecology, University of Melbourne
- 1984-91: Director of Microbiology and Infectious Disease, Royal Children's Hospital, Melbourne**
- 1984-91: Senior Associate, Department of Paediatrics, University of Melbourne.
- 1995-6: Honorary Staff Specialist, Royal Alexandra Hospital for Children (RAHC), Sydney
- 1996-8: Director of Microbiology, New Children's Hospital (RAHC) Sydney

MEMBERSHIP OF PROFESSIONAL ORGANISATIONS & OFFICES HELD

- **Australasian Society for Infectious Diseases (ASID):** Member since 1976; Member of Council (1987-90; 1994-2000); Vice-President (1994-1997)
 - **President (1997-2000)**
- **Australian Society for Microbiology (ASM):** Member since 1977; Fellow since 1990; Chair, National Examinations Board, (1990-5); Member, Publications Standing Committee (1995-2000); Research Advisory Committee (1995-); Member of Council, (1990-4; 1998-2002);
 - **President (2000-2)**
- **Venereology Society of Victoria:** Member 1979-89
 - **President (1982-5).**
- American Society for Microbiology
- European Society for Infectious Diseases and Clinical Microbiology
- Public Health Association of Australia
- Australian Association of Bioethics and Health Law
- Australian College of Infection Prevention and Control

AWARDS

- Australian Society for Microbiology
 - Distinguished service award, 2003
 - Award named in honour: “Lyn Gilbert Clinical Microbiology Award” (established by Council, 2014)
 - Honorary Life Member, 2016
- Australasian Society for Infectious Diseases: Honorary Life Member 2011
- Royal Australasian College of Physicians: Honorary Life Member 2012
- Officer of the Order of Australia (AO), 2017

HONORARY POSITIONS, COMMITTEE MEMBERSHIP AND CONSULTANCIES

Current

- Australian Health Protection Principle Committee (AHPPC); Infection Prevention and Control Expert Advisory Group (IPCEAG) (2014-current)
 - - on Ebola virus disease (2014-15);
 - - on carbapenem resistant Enterobacteriaceae (2015-current).
- Australian Commission on Safety and Quality in Healthcare (ACSQHC): HAI advisory committee (2015- current).
- Monash University, Department of Microbiology, Scientific Advisory Committee (2012- current)
- NH&MRC assessors panel (1984 -)
- Westmead Hospital Charitable Trust – trustee (2019-)

Recent

- NSW Clinical Excellence Commission (CEC), Chair: Healthcare Associated Infections (HAI) Expert Advisory Subcommittee (2012-15)
- NSW CEC, Healthcare Associated Infections Steering Committee (2012-15)
- Chief Medical Officer’s Clinical Advisory Committee on Lyme Disease in Australia (CACLD) (2012-14)
- Deputy Chair, Western Sydney Local Health District, Infection Control Committee (2011-5)
- NSW Health – HAI Expert Advisory Group, Chair (2006- 2011)
- NSW Health – HAI Steering Committee (2006- 2011)
- NSW Health Minister’s Taskforce on Infection Control, Chair (2011)
- Data Safety Management Board. *PneuMum: An RCT of maternal pneumococcal vaccination for protection of Indigenous children from ear disease.* NHMRC Project Grant #490320 (2006-10)
- Scientific Advisory Committee, Centre for Health Informatics, UNSW (2006-8)

- National Centre for Immunisation Research and Surveillance (NCIRS) Scientific Advisory Committee, (1997- 2012); Chair (2007- 2012)
- NCIRS Advisory Board (2007- 2012)
- Therapeutic Guidelines: Antimicrobials, 14th Edition, writing group (2009- 13)
- CEC committees (2009-12): Hand Hygiene Advisory; Quality Use of Antibiotics in Intensive Care Project; Central Venous Catheter Policy Review
- Environmental Science & Research (ESR) Laboratories, Wellington, New Zealand, Clinical Advisory Panel (2009-13)
- WHO Western Pacific Region: consultant on Establishment of Public Health Laboratory Network in Vietnam; workshop convenor, Hue City (2010)
- Review Panel; Masters and Graduate Diploma in Infectious Diseases, University of Western Australia (2010).
- Commonwealth Department of Health and Aging; Pneumococcal Working Party, Steering Group and Surveillance Group and Chair, Laboratory Requirements Group (2000-2013)

Past

International:

- WHO Expert Panel on Health Laboratory Services (1986-2002)

National:

- Royal College of Pathologists of Australasia (RCPA): Examiner in Microbiology, (1982 -2000).
- RCPA, Board of Education; Chair, Microbiology Subcommittee (1983-7).
- Royal Australasian College of Physicians (RACP): Specialist Advisory Committee (Infectious Disease), (1986-2000)
- NHMRC Expert Panel on Antibiotics, Chair (1990-1993)
- National Pathology Accreditation Advisory Council (NPAAC), (1990-92)
- National Communicable Diseases Surveillance Strategy: Steering Committee; Chair, Laboratory Subcommittee (1994-6)
- Board, Australian Centre for Immunization Research, (1995- 2000)
- National Serological Reference Centre: Chair, Management Committee (1995-7)
- Communicable Diseases Network, Australia (CDNA): representing ASM (1995-2009)
- NHMRC Australian Health Technology Advisory Committee (Molecular Biology Working Party) (1997)
- National Public Health Laboratory Network (PHLN): (1997-2010); founding Chair (1997-2001)
- NPAAC Subcommittee on Nucleic Acid Detection Techniques, (1998-9)
- Influenza Pandemic Planning Committee, (1998- 2002)
- NHMRC Expert Committee on Transmissible Spongiform Encephalopathies, (2001)
- Editorial Group, Chief Medical Officer's (CMO) Report on Communicable Diseases, (2000- 3)
- CMO's Infectious Diseases Emergency Response Group, (2002-4)

State (New South Wales Department of Health):

- 1991-2001: Member: Expert Advisory Committees and Panels:
 - Infectious Diseases Advisory Committee, (1991-3)(1999-2002); Tuberculosis Advisory Committee, (1993-2010); Vaccine Preventable Diseases Studies Unit, (1995-2000); Health Expert Panel on *Cryptosporidium* in Water, (1998-9); Health Public Health Laboratory Advisory Committee, (1996-2000); Health Expert Panel: Northside Storage Tunnel, (2000)
- 2002-2006:
 - Member: Chief Health Officer's Public Health Forum (2002-6); SARS Taskforce (2003); Enteric Diseases Advisory Committee (2003); Health Biological Agents Advisory Group (2003); Infectious Diseases Emergency Advisory Committee (2004); Counter Disaster Clinical Advisory Group (2004)
 - Chair: Expert Group on Multiresistant Organisms (2005-7)

Local (Westmead Hospital; Sydney West Area Health Service (1991-2010):

- Westmead Hospital: Infection Control Committee, Chair (1991-5); Drug Committee, Member (1991-5); Confidential Review Committee, Member (1992-4)
- Sydney West Area Health Service Infection Control Committee, Member, Deputy Chair (2007-10)

Other:

- Review Panels: Department of Microbiology Adelaide Children's Hospital, member (1989); Department of Microbiology, Monash University, member (1990); Division of Pathology, Royal Children's Hospital, Melbourne. (1994); National HIV Reference Laboratory (1995).
- Consultancies: Victorian Department of Social Services and Health - Infectious Diseases Services in Victoria (1990); Infection Control Consultant, Macarthur Private Hospital (1994)

MAJOR RESEARCH INTERESTS

(Current major project topics shown in bold; details of grants and graduate students below)

Obstetric, gynaecological, congenital, perinatal & paediatric infectious diseases (excluding major pathogen-specific infection listed below) – 65 publications

- *Chlamydia trachomatis* in pelvic inflammatory disease & neonatal infection (MSc & MSc preliminary students, 1982-3; 1990)
- Neonatal group B streptococcal infections (BMed Sci student, 1982) – see below
- Transfusion-acquired neonatal cytomegalovirus infection (RCH Research Foundation grant 1985)
- Role of *Ureaplasma urealyticum* in renal disease and complications of pregnancy
- Detection of multiple genital pathogens by a novel multiplex PCR-based reverse line blot assay

***Haemophilus influenzae* type b invasive disease - 23 publications**

- Epidemiology of *H. influenzae* typ b disease in Australia. (2 PhD students awarded 1991, 2000; NHMRC project grants 1989-91)
- Pathogenesis of *H. influenzae* type b diseases (PhD student, supported by NHMRC scholarship, awarded 1991)

Group B streptococcus (*Streptococcus agalactiae*) – 40 publications

- Identification of women whose infants are at risk of GBS sepsis (NHMRC grant, #974089)
- Molecular genotyping and antibiotic resistance; strain distribution and virulence (Ramaciotti grant, 2001; PhD project, awarded 2004; NHMRC grant #358351 2006-8)
- National surveillance neonatal GBS disease 2005-8, with Australian Paediatric Surveillance Unit.

Serosurveillance and epidemiology of vaccine preventable diseases (VPDs) – 33 publications.

- Laboratory studies for NCIRS (1998-); national serosurveys and other laboratory aspects of VPDs – funded by Commonwealth Department of Health and Ageing

Mycobacteria including *M. tuberculosis* – 28 publications

- Diagnosis and monitoring of disseminated infection with *Mycobacterium avium* complex in patients with AIDS (senior registrar project, MMed student, 1995-6).
- Molecular methods for rapid detection, genotyping, susceptibility testing of *Mycobacterium* spp. (including *M. tuberculosis*) (BSc Hons student, 1999; PhD student; awarded 2005; registrar project 2008).
- Rapid *M. tuberculosis* antibiotic resistance detection; cluster analysis of *M. tuberculosis* isolates; collaboration with Beijing Chest Hospital, Capital Medical University, China.
- Molecular epidemiology and drug resistance of *Mycobacterium tuberculosis*. (NHMRC project grant #1044986; Centre for Research Excellence in Tuberculosis #1043225)

***Streptococcus pneumoniae* and pneumococcal disease – 30 publications.**

- Epidemiology of pneumococcal disease in children, NRMRC project grant #974080 (1997-9)
- Pneumococcal disease in the elderly. NHMRC project grant #352383 (2005-7)
- *S. pneumoniae* molecular serotyping; rapid identification of vaccine serotypes. (NCIRS grant, 2002; BSc project, 2004; NHMRC project grant #358351, 2005-8).
- Culture independent serotype identification from clinical specimens; collaborations with Murdoch Institute, University of Melbourne; Menzies School of Health Research, Darwin, 2008-9

- Multicentre Australian and international studies of childhood pneumococcal empyema and pneumonia and effects of vaccination: (a) funded by GlaxoSmith Kline 2007-9; (b) NHMRC grant #1064841, 2014-7

Human mycoplasma and ureaplasma infections; *Ureaplasma* spp. genotyping – 25 publications.

- *Ureaplasma* spp. and related organisms in preterm labour (PhD student; supported by Westmead Hospital Research Foundation Initiating Grant, awarded 2002)
- *U.urealyticum* in development of acute and chronic neonatal lung disease (with Department of Neonatology, 1995-2002).
- Taxonomy and molecular subtyping of *U.urealyticum* and *U.parvum* (PhD student, supported by NHMRC postgraduate award; awarded 2004)
- Methods of detecting ureaplasma carriage in pregnant woman. (MMed student; awarded 2005)
- Macrolide resistance and genotyping of *Mycoplasma genitalium* (BSc Hons student; 2012)

Methicillin resistant and susceptible *Staphylococcus aureus* infections – 20 publications.

- Development and application of novel MRSA genotyping system for use in surveillance and hospital infection control (PhD student, NHMRC postgraduate scholarship; awarded 2013)
- MRSA genotyping & rapid interpretive reporting to clinicians to identify and reduce transmission events and outbreaks in hospitals (NHMRC project grants #1010452 & #1009178; 2011-13).
- MSSA genotyping and transmission in hospitals. (NHMRC project grant #1065908)

Enteric infections – 15 publications.

- Molecular typing of *Salmonella* Typhimurium (BSc Honours student, 1999); novel phage-type identification and genotyping of *Salmonella* Typhimurium
- Use of informatics tools for spatiotemporal identification of clusters of salmonellosis (NHMRC project grant #457472).
- Epidemiology of *Campylobacter jejuni* infections (PhD student, 2005)
- *Clostridium difficile* disease and epidemiology

Pertussis & *Bordetella pertussis* molecular epidemiology – 17 publications

- Relationship of changes in *B. pertussis* genotypes to changes in vaccination schedules, incidence and severity of clinical disease. (NHMRC project grants #455308, 2007-9; #1011942, 2011-13).

Decision analysis in pathology & disease surveillance; decision support systems – 14 publications

- Development & evaluation of electronic decisions support systems for antibiotic prescribing in ICU (PhD student, NHMRC postgraduate scholarship; awarded 2005).
- Clinical & surveillance decision analysis

Infectious disease/infection control ethics and antimicrobial stewardship – 22 publications

- Physician responsibility in infection control
- Surveillance ethics
- Healthcare worker immunization
- Ethics projects associated with (C)CREs (see below)
- Improving infection prevention and control practice using videoreflexive ethnography
- Ethics and politics of Ebola virus disease

Enteroviruses – 6 publications

- Molecular strain type identification and epidemiology (PhD student, awarded 2010)

***E. coli* virulence in urinary tract infections – 4 publications**

- Virulence factors in uropathogenic *E. coli* in various population groups (PhD student, awarded 2013)

***Legionella* infections - 4 publications**

- Virulence factors and pathogenesis of *L. longbeachae* infection (PhD student; funded by NHMRC - Dora Lush scholarship; awarded 2005)
- Diagnosis of legionellosis

Ebola virus disease – 6 publications

- Infection prevention and control; laboratory diagnosis; ethical issues

Ethics of One Health, antimicrobial resistance and disease surveillance – 5 publications

- Use of Delphi surveys, discrete choice experiments and community juries to explore stakeholder and public attitudes and values

RESEARCH GRANTS*National Health and Medical Research Council***Project grants**

1989-91: *Haemophilus influenzae* type b infections (**CIA Gilbert**)

1997-9: **#974080_McIntyre (Gilbert CIB)** Childhood pneumococcal infection in Australia - importance and prevention; \$165,600

1997-9: **#974089_Gilbert (CIA)**. Screening pregnant women to prevent neonatal group B streptococcal sepsis; \$127,200

2005-7: **#358351_Gilbert (CIA)**. Translating bacterial molecular epidemiology (group B streptococcus & *S. pneumoniae*) into information to improve infectious disease risk assessment and control; \$633,500

2005-7: **#352383_MacIntyre (Gilbert, CID)**. Immunogenicity of 7-valent pneumococcal conjugate vaccine (PCV-7) in vulnerable elderly populations at risk for invasive pneumococcal disease; \$436,550.

2006: Urgent influenza research **#402870_Iredell (Gilbert CIF)**. Novel high-throughput platform for rapid identification, quantitation, differential diagnosis and resistance testing of influenza; \$332,750

2007-9: **#457472_Gilbert**. Optimisation of *Salmonella* genotyping and epidemiological data analysis for detection and investigation of outbreaks; \$725,000

2007-9: **#455308_Lan (Gilbert CID)**. Molecular typing and epidemiology of *Bordetella pertussis* in Australia. \$532,000

2008-10: **# 512396_Iredell (Gilbert CID)**. Effects of antibiotics on the human microflora; \$392,400

2011-13: **#1010542_Gilbert**. Microevolution and transmission of MRSA in hospitals; \$773,710.

2011-13: **#1009178_Iedema (Gilbert CIB)**. Strengthening frontline clinicians' infection control: A multi-method study to reduce MRSA infection and transmission; \$773,410

2011-13: **#1011942_Lan (Gilbert CIC)**. Evolution of pertussis epidemics and effect of genotypes on infection outcomes and immunisation; \$638,110)

2013-15: **#1044986_Sintchenko (Gilbert CIC)**. Mechanisms and markers of tuberculosis transmission within Australia. 2013-15; \$772,200

2014-16: **#1065908_O'Sullivan (Gilbert CIB)**. The true burden of acquired staphylococcal infections: genetic fingerprinting to track transmission of methicillin sensitive and resistant *Staphylococcus aureus*. \$804,620

2014-18: **#1064841_Jaffe (Gilbert CIC)**. Impact of pneumococcal vaccine on childhood pneumonia; \$1,091,024

2015-17: **#1083079_Degeling (Gilbert CIB)**. Can One Health strategies be more effectively implemented through prior identification of public values? \$565,105.50

2016-18: **#1102170_Sintchenko (Gilbert CIF)**. Genomics dissection and prevention of bacterial transmission events. \$891,289

[Clinical] Centres of Research Excellence ([C]CRE) Grants

2005-9: **CCRE #358426_Sorrell (Gilbert CID of 10)**. Clinical and Ethical Aspects of Infections in Haematological Malignancies.; \$400,000 per annum.

2011-16: **CRE #1001021_Iredell (Gilbert CIC of 10)**. Critical Infections; \$400,000 per annum

2013-17: **CRE # 1043225_Britton (Gilbert CIJ, of 10)**. Tuberculosis control; \$400,000 pa

2016-20: **CRE 1102962_Sorrell (Gilbert CID of 10)**. Protecting the public from emerging infectious diseases. \$400,000 pa

2017-21: **CRE 1116530_Lewin (Gilbert CIH of 10)**. Australian Partnership for Preparedness Research on Infectious Disease Emergencies (APPRISE) \$500,000 pa

Small grants/urgent research

2020: **APPRISE/CREID internal grants _ Gilbert**: Qualitative research on experience of frontline healthcare workers and carers with infection prevention and control in the context of COVID-19 \$50,000.

2020: **NHMRC/APPRISE**: Potential influences of information sources and communication methods, on stakeholder beliefs, attitudes and responses to CoVID-19 infection prevention and control (IPC). A multimodal qualitative study. \$113,000.

Australian Research Council

2006-8: **Linkage grant LP0667531 PI Sintchenko (Gilbert investigator 3 of 7)** Informatics approaches to improving risk assessment and response to communicable disease outbreaks; \$295,000

2008: **Linkage International Fellowship LX0881935 PI Hocking (Gilbert Investigator 2 of 5)**.The implications of the convention on biological diversity for infectious diseases; the case of Indonesia and avian flu; \$86,000.

Research and development grants

Source: Commonwealth Department of Health & Family Services

Title: NCIRS, Laboratory studies (Gilbert, responsible investigator until 2012)

Amount / years: \$100,000 per annum / 1998-2004; \$120,000 per annum / 2004- current).

Source: Vaccine Preventable Disease Studies Unit.

Title: Molecular typing of group B streptococcus (Gilbert, investigator).

Amount / year: \$26,000 / 2000

Source: Clive and Vera Ramaciotto Foundation.

Title: Molecular serotyping of group B streptococcus (Gilbert, investigator).

Amount / year: \$15,000 / 2000

Source: NSW Department of Health.

Title: Public Health Capacity Building Infrastructure Grant/Population Health and Health Services Research Support Program.

Awarded to: CIDM-Public Health (Gilbert, Director until 2013) x 3 funding rounds

Amount/year: \$500,000 per annum; 2003-13, total \$5,000,000; 2013-17 \$250,000 per annum.

Patents

Molecular typing of group B streptococcus (GBS) Patent number PCT/AU2/01281 (International patent);
Molecular typing of *Streptococcus pneumoniae* Patent number 2003901717 (Provisional)

POSTGRADUATE STUDENTS SUPERVISED (TOPICS)

(primary supervisor unless otherwise indicated).

University of Sydney

Sydney Medical School (Western Clinical School)

- | | |
|--|-----------------------|
| • Nicolle Trivett-Moore (<i>M. tuberculosis</i> PCR) | MSc(Med) awarded 1999 |
| • Kirsty Hannaford (Ureaplasmas in neonates/rabbit model) | PhD awarded 2000 |
| • Jacqueline Montanaro (<i>Legionella longbeachae</i>) | PhD awarded 2005 |
| • Neisha Jeffreys (<i>Treponema pallidum</i> penicillin susceptibility) | PhD awarded 2005 |
| • Kong Fanrong (Ureaplasmas/group B streptococcus genetics) | PhD awarded 2004 |
| • Shahin Oftadeh (Ureaplasmas in pregnancy) | MSc(Med) awarded 2005 |
| • Linh Nhat Nyugen (TB epidemiology - co-supervisor) | PhD awarded 2006 |
| • Lee Thomas (Gram negative bacterial resistance - co-supervisor) | MSc Med awarded 2006 |
| • Michelle McKechnie (sexually transmitted disease pathogens) | PhD awarded 2010 |
| • Fei Zhou (Enteroviruses, molecular typing - co-supervisor) | PhD awarded 2010 |
| • Matthew O'Sullivan (MRSA strain typing and transmission) | PhD awarded 2013 |
| • Linda Hueston (Barmah Forest virus) | PhD awarded 2013 |
| • Yasmin Sultana (<i>Strongyloides stercoralis</i> - co-supervisor) | PhD awarded 2013. |
| • Matthew Watt (<i>Strongyloides stercoralis</i> – co-supervisor) | PhD awarded 2019 |
| • Mitchell Brown (MSSA strain typing and transmission) | PhD commenced 2014 |
| • Ravi Dotel (Hospital epidemiology and virulence of MSSA) | PhD commenced 2015 |
| • Ruth Barratt (Clinicians' use of PPE) | PhD commencing 2017 |

Department of Public Health and Community Medicine

- | | |
|--|--------------------|
| • William Chew (<i>Mycobacterium avium</i> – co-supervisor) | MPH completed 1993 |
| • Toni Sanders (Group B streptococcus) | MPH completed 2002 |

Department of Microbiology

- | | |
|-----------------------------|------------------------|
| • Rebecca Cole (Ureaplasma) | BMed Sci (Hons) - 1995 |
|-----------------------------|------------------------|

Department of Infectious Diseases

- | | |
|---|-------------------------|
| • Neisha Asimus (<i>Salmonella</i> Typhimurium genotyping) | B Med Sci (Hons) - 1996 |
| • Kellie Cheung (<i>Corynebacterium diphtheria</i> genotyping) | B Med Sci (Hons) – 1996 |

Department of Paediatrics

- | | |
|--|----------------------|
| • Cheryl Jones (Immune response to HSV-2 – associate supervisor) | PhD - completed 1999 |
|--|----------------------|

Sydney Medical Program

- | | |
|--|------------------|
| • Peter Smith (Multidrug resistant TB in NSW) | MBBS (Hons) 2003 |
| • Dale Marchant (TB in a PNG village) | MBBS (Hons) 2010 |
| • Ines Prasadha (<i>Clostridium difficile</i> infection at Westmead Hospital) | MBBS (Hons) 2012 |
| • Christopher Sadler (Genotyping to identify MRSA transmission in ICU) | MBBS (Hons) 2013 |

Other Universities

PhD (year of graduation)

- Valda Groves (*Cryptosporidium*); University of Melbourne, Department of Paediatrics (1991)
- Dennis Clements (*Haemophilus influenzae* type b epidemiology); Associate-supervisor; University of North Carolina (1991)

- Paul Johnson (*Haemophilus influenzae* type b pathogenesis; University of Melbourne, Department of Paediatrics (1997)
- Patricia Moor (*Haemophilus influenzae* type b genotyping); Associate-supervisor; Australian National University (2000)
- Leanne Unicomb (*Campylobacter jejuni* - epidemiology); Associate supervisor; Australian National University (National Centre for Epidemiology and Public Health)(2005)
- Vitali Sintchenko (Decision support for antibiotic prescribing); Associate-supervisor; UNSW Centre for Health Informatics (2005)
- Timothy Kudinha (Virulence genes in uropathogenic *E. coli*); Associate supervisor; Charles Sturt University (2013)

Masters

- Jacqueline Montanaro (Toxoplasmosis; Associate-supervisor; RMIT University (1995)
- Mitchell Brown (Viral/bacterial respiratory co-infections in children); Associate supervisor; University of Technology, Sydney (2010)

Honours

- | | | |
|-------------------------|---------------------------------|-----------------------|
| • Nicolle Trivett Moore | UNSW Microbiology & Immunology | MSc Prelim 1992 |
| • Amanda Gifford | UNSW Food Science & Technology | BSc (Hons) 1999 |
| • Danielle King | UNSW Microbiology & Immunology | BSc (Hons) 1999 |
| • Archana Sabananthan | UNSW Biotechnology & Biomed Sci | BSc (Hons) 2004 |
| • Kathryn Shaw | University of Western Sydney | BSc (Hons) 2005 |
| • Victor Wei Xiong | UNSW Biotechnology & Biomed Sci | BSc (Hons) 2005-6 |
| • Kaitlin Tagg | Macquarie University, Med Sci | B Med Sci (Hons) 2012 |

TEACHING EXPERIENCE, COURSES

Undergraduate:

- 1975-78 (University of Melbourne):
 - responsible for Medical Microbiology teaching in Microbiology, University of Melbourne, including approximately 50% of lectures and design and organization of practical classes
 - Responsible for BSc unit in Infection and Immunity – lectures and practical classes
- 1991-present (University of Sydney)
 - Participation in design and planning of microbiology and infectious diseases curriculum for Graduate Medical Program
 - Several lectures each year to GMP and Sydney Medical program student on campus and at Western Clinical School including: “Ethics of Infection Control” (Annual 2012-18)
 - Tutor for problem-based learning session

Postgraduate: Recurring lectures and tutorials

University of Sydney

- Master of Medicine in Sexual Health and HIV/AIDS: “Chlamydia and Mycoplasma infections”
- Master of Medicine in Infection & Immunity: “Salmonella & shigella”
- Master of Medicine in Infection & Immunity: Global Health module: (i) “Childhood meningitis & pneumonia; (ii) Millennium Development Goals”
 - Annual: 2011-2018
- Master of Public Health: Unit of Study in Communicable Diseases: on-line teaching/lectures and tutorials: Emerging Infectious Diseases and Bioterrorism; Zoonoses
- Master of Medicine Bioethics: “Ethical issues in Public Health and Influenza Pandemic Planning”. Annual 2012-
- **Master of Public Health: Unit of study in Healthcare Infection Prevention (Convenor 2014-17)**. Annual (6-8 lectures – 2014-)

Other

- ANZCOG annual update: Infections in Pregnancy.

- Sexual Health Physician trainees (Sydney Sexual Health Clinic): “STI in Pregnancy”
- Virology Masterclass (University of Adelaide): “Measles, mumps, rubella and polio”

Other Education/training programs:

- 1982-91: Melbourne – regular tutorials for RCPA and RACP trainees in Microbiology and Infectious Diseases
- 1992-1998: Sydney – annual 10-lecture program in medical microbiology for laboratory scientists (including student undertaking Master of Medical Microbiology at University of Technology, Sydney) and RCPA trainees
- 2003-13: 2-4 organised one or 2-day symposia, per annum on relevant topics as part of the CIDM-Public Health education and outreach program
- 2014-: Elective Unit of Study (Master of Public Health) in Healthcare Infection Promotion

2000-2011: Chinese visiting scholar program:

- Over approximately 12 years, >20 Chinese scholars have visited CIDM-Laboratories (for periods of 3 months to 1 year) to obtain experience and develop new laboratory methods for diagnosis of infectious diseases, suitable for translation into routine use in their own departments.
- Projects supervised by GLG and Dr Fanrong Kong (SHS, who arranged these visits)
- All visiting scholars have published at least one – and in many cases 3-4 papers – in (mostly) high-ranking English language microbiology journals, based on their projects at CIDM and all improved their verbal and written English language skills. Total >40 publications.
- The scholars’ home institutions provided travel and living expenses were provided by and laboratory expenses from CIDM-Public Health.
- In recognition of this program, I have been honoured by being appointed honorary professor at two Chinese Universities

PUBLICATIONS

Articles in refereed journals and conference proceedings

1. Newton-John HF, **Gilbert GL**, Sandland AM, et al. Cholera: an imported case in Australia 1969. *Med J Aust* 1971;1:135-138.
2. **Gilbert GL**, Cassidy JF. Rat-bite fever. *Med J Aust* 1971;2:1131-1134.
3. **Gilbert GL**, Beaton CP, Forsyth JRL, Bell CO. An epidemiological survey of human brucellosis in three Victorian abattoirs. *Med J Aust* 1980;1:482-486.
4. **Gilbert GL**, Hawes LA. The antibody response to brucella; immunoglobulin response measured by an enzyme-linked immunosorbent assay and conventional methods. *Aust NZ J Med* 1981;11:40-45.
5. **Gilbert GL**. Vertical transmission of hepatitis B: review of the literature and recommendations for management. *Med J Aust* 1981;1:280-285.
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383. Branley JM, Polkinghorne A, **Gilbert GL**. Reusing N95 (or P2) masks: current evidence and urgent research questions. *Med J Aust* 2020; 213 (3): 140-140.e1. || doi: 10.5694/mja2.50694
Published online: 3 August 2020
384. **Gilbert GL**. COVID-19 in a Sydney nursing home: a case study and lessons learnt. *MJA* (preprint, published online July 17th, 2020) <https://www.mja.com.au/journal/2020/covid-19-sydney-nursing-home-case-study-and-lessons-learnt>

Under review

385. **Gilbert GL**, Kerridge I. Why can't a doctor be more like a nurse? A qualitative study of interprofessional influences on doctors' infection prevention and control practices.
386. Barratt RM, Wyer M, Hor S-Y, **Gilbert GL**. Are Australian medical interns prepared for optimal use of personal protective equipment?
387. Degeling C, Chen G, **Gilbert GL**, Brookes V, Thao T, Wilson A, Johnson J. Changes in public preferences for technologically-enhanced surveillance following the COVID-19 pandemic – a discrete choice experiment.
388. Fielding J, Sullivan S, Beard F, Macartney KK, Williams J, Dawson A, **Gilbert GL**, Massey P, Crooke K, Moss R, McCaw JM, McVernon J. Constructing an ethical framework for priority allocation of pandemic.
389. Strachan R, Homaira N, Beggs S, Bhuiyan M, **Gilbert GL**, Lambert S, Macartney K, Marshall H, *et al.* Assessing the impact of the 13 valent pneumococcal vaccine on childhood empyema in Australia

Articles in "The Conversation"

1. Lyn Gilbert. June 9 2011. A persistent spot of bother – why vaccinations haven't stopped measles.
2. Ian Kerridge & Lyn Gilbert. August 25, 2014. Epidemic ethics: lessons from the current Ebola outbreak.
3. Grant Hill-Cawthorne & Lyn Gilbert. September 14, 2014. Don't panic about Ebola's spread, here's what we can do instead.
4. Lyn Gilbert, April 17, 2015. No, you don't have to finish all your antibiotics.
5. Lyn Gilbert, February 5, 2016. Explainer: what is microcephaly & what is its relationship to Zika virus?
7. Lyn Gilbert, July 22, 2016. 'Slapped cheek' syndrome: a common rash in kids, more sinister in pregnant women
8. Paul Komesaroff, Ian Kerridge, Lyn Gilbert. March 26th 2020. The US is fast-tracking a coronavirus vaccine, but bypassing safety standards may not be worth the cost

Books

1. Cauchi M, **Gilbert GL**, Brown J (Eds). Clinical pathology of pregnancy and the newborn infant. Edward Arnold 1984.
2. **Gilbert GL**. Infectious Diseases in Pregnancy and the Newborn Infant. Harwood Academic Publishers Chur, 1991.
3. **Gilbert GL** (Ed). Infectious Diseases: Challenges for the 1990s. Bailliere's Clinical Obstetrics and Gynaecology. Bailliere Tindall W.B Saunders Company. London 1993 Volume 7 No. 1 March.
4. **Gilbert GL** (Ed.) Recent Advances in Microbiology 1994 Volume 1. Australian Society for Microbiology, Melbourne
5. **Gilbert GL**. Antenatal Screening and Prenatal Diagnosis. Monograph Series No.1 1994. Centre for Infectious Diseases and Microbiology, Sydney
6. **Gilbert GL** (Ed) Recent advances in Microbiology 1994. Volume 2. Australian Society for Microbiology, Melbourne.
7. **Gilbert GL** (Ed) Recent advances in Microbiology 1995. Volume 3. Australian Society for Microbiology, Melbourne.

Book chapters

1. **Gilbert GL**. Group B streptococcal infections. *In* Festschrift for Alan Llewelyn Williams 1984.
2. **Gilbert GL**. Meningitis *In* The Disease Index, MPC Publications, Sydney 1990. (2nd Ed., 1995)
3. **Gilbert GL**. Congenital and Perinatal Infections *In* MJ Robinson (Ed.) Practical Paediatrics, 2nd Ed. 1990; 3rd Edition, 1993. Churchill Livingstone.
4. **Gilbert GL**, Robinson MJ. Infectious Diseases. *In* MJ Robinson (Ed.) Practical Paediatrics, 2nd Ed. 1990; 3rd Edition, 1993. Churchill Livingstone.
5. Robinson MJ, **Gilbert GL**. Meningitis and Encephalitis *In* MJ Robinson (Ed.) Practical Paediatrics, 2nd Ed. 1990; 3rd Edition, 1993. Churchill Livingstone.
6. Sorrell TC, **Gilbert GL**. Infections *In* Eadie MJ (Ed). Drug Therapy in Neurology. Churchill Livingstone, Edinburgh 1992 pp 421-512.
7. **Gilbert G.L.** Diagnosis of Infectious Diseases in the Fetus and Newborn *In* Trent RJA. Handbook of Prenatal and Neonatal Diagnosis. Cambridge University Press. 1995

8. **Gilbert G.L.** Chlamydia. *In* Collee JG, Duguid JP, Fraser AG, Marmion BP (Eds). Mackie & McCartney Practical Medical Microbiology. 14th Edition. Churchill Livingstone 1996.
9. **Gilbert G.L.** Prevention of Infectious Diseases in Pregnancy. *In* Steegers EAP, Eskes TKAB, Symonds EM (Eds) Preventive Care in Obstetrics. Bailliere's Clin Obst Gynaecol 1995
10. **Gilbert GL.** Ureaplasmas and Human Disease. *In* **Gilbert GL.** (Ed) Recent Advances in Microbiology 1995 Volume 3. Australian Society for Microbiology, Melbourne.
11. **Gilbert GL.** Congenital and Perinatal Infections *In* Practical Paediatrics, M J Robinson & DM Robertson, Eds. Churchill Livingstone, 4th Edition, 1997
12. D Isaacs, **Gilbert GL.** Infectious Diseases of Childhood. *In* Practical Paediatrics. M J Robinson & D M Robertson Eds. Churchill Livingstone, 4 th Edition, 1997
13. **Gilbert G.L.** Chlamydial infections. *In* Taussig L & Landau L (Eds). Textbook of Pediatric Respiratory Medicine. Mosby Year Books Inc 1998.
14. **Gilbert G.L.** Strategies for prevention of group B streptococcal infection in the new millennium. *In*: Asche V (Ed) Recent Advances in Microbiology 2000. Volume 8. Aus Soc Microbiol
15. **Gilbert G.L.** Congenital and Perinatal Infections *In* Practical Paediatrics, M J Robinson & DM Robertson, Eds. Churchill Livingstone, 5th Edition, 2001
16. **Gilbert G.L.** O'Reilly M, Garland SM. Infectious Diseases in the Pregnant Woman and her Infant *In* Yung A *et al* (Eds). Infectious Diseases: A Clinical Approach. Yung A, *et al* (Eds) 2005
17. **Gilbert G.L.** Rat Bite Fever. Conn's Current Therapeutics 2005 Rakel RE, Editor. WB Saunders 2005.
18. **Gilbert G.L.** Selgelid M, Populations, patients, germs and genes – ethics of genomics and informatics in communicable disease control. *In* Sintchenko V (Ed) Infectious Disease Informatics. Springer 2010.
19. **Gilbert G.L.** O'Reilly M, Garland SM. Infectious Diseases in Pregnancy. *In* Yung A *et al.* (Eds) Infectious Diseases: A Clinical Approach. 2nd Edition 2010
20. **Gilbert G.L.** Electronic surveillance for communicable disease prevention and control: health protection or a threat to privacy and autonomy? *In* Ethics and Security Aspects of Infectious Disease Control: Interdisciplinary Perspectives. Selgelid M, Enemark C (Eds). Ashgate Press, 2012
21. McKechnie ML, Kong F, **Gilbert GL.** Simultaneous direct identification of genital organisms in voided urine by multiplex-PCR based reverse line blot assays. *In* Wilks M (Ed). PCR Detection of Microbial Pathogens; Method in Molecular Biology vol 943. Springer Science & Business Media LLC, Human Press, 2013. ISBN 978-1-60327-352-7
22. Degeling C, **Gilbert GL,** Dawson A. The ethics of One Health *In*. Walton M (Ed) Eco-One Health: Looking after humans, animals and the environment. University of Sydney Press 2019.
23. **Gilbert GL,** Kerridge I. Hospital infection prevention and control and antimicrobial stewardship: dual strategies to reduce antimicrobial resistance in hospitals. *In* Jamrozik, Z & Selgelid M. Ethics and Antimicrobial Resistance. (in press, 2020)

Invited reviews & broadsheets.

1. Asche V, **Gilbert GL.** Neonatal sepsis. Clinical Microbiology Update Programme No.14 Australian Society for Microbiology (NSW Branch) November 1982.
2. **Gilbert GL,** Forsyth JRL. Genital tract infections in women. Clinical Microbiology Update Programme No.23. Australian Society for Microbiology (NSW Branch) May 1984.
3. **Gilbert GL.** Acute salpingitis. Aust Fam Phys 1984;13:665-72.
4. **Gilbert GL.** Sexually transmissible chlamydial infections wolves in sheeps clothing? Aust Microbiologist 1985;6:289-294.
5. **Gilbert GL.** Infection as a preventable cause of female infertility. Healthright 1985;4:21- 24.
6. **Gilbert GL.** Pathogenesis of infection due to *Chlamydia trachomatis*. Bull Nat Vener Council Aust 1987;7:101-7
7. **Gilbert GL.** *Haemophilus influenzae* type b immunization. In: Immunization in Australia. Proceedings of the First National Conference. Thompson N, Editor. Public Health Association of Australia and New Zealand. Canberra, 1988.
8. **Gilbert GL,** Cunningham AC. Diagnosis of infections due to *Chlamydia trachomatis*. Broadsheet No 2. Royal College of Pathologists of Australasia. 1988
9. Clements DA, **Gilbert GL.** *Haemophilus influenzae* type b infection Victoria and worldwide. Australian Microbiologist.1989;5:523-6.
10. **Gilbert GL,** MacDonald HM. Antenatal Screening for Infectious Diseases. Clinical Microbiology Update. No 30 August 1991
11. **Gilbert GL.** Antenatal Screening for Infectious Diseases. Common Sense Pathology. Unit 22 July 1992

12. **Gilbert GL.** Cytomegalovirus Infection in the Immunocompromised Host. In Kerr D, Thirlwell J (Eds) Australian Anaesthesia 1992. Australian and New Zealand College of Anaesthetists. 1992 pp144-151.
13. **Gilbert GL.** Vaccination of children: Benefits versus risks. In A View on Immunization, Focus on Children. 1992 Adis International pp 12-14.
14. **Gilbert GL.** Preventing the impact. immunization against *Haemophilus influenzae* type b. In *Haemophilus influenzae* type b. Towards Total Control. Adis International. 1993 pp 8-12.
15. **Gilbert GL.** Backhouse J. Laboratory Diagnosis of Syphilis. Royal College of Pathologists of Australasia. Broadsheet No 32. 1994.
16. **Gilbert GL.** Hib Vaccines. Who, Which and When? Current Therapeutics 1994 (May) 11-15.
17. **Gilbert GL.** Neonatal group B streptococcal infection - strategies for prevention. Australian Infection Control Journal 1995
18. **Gilbert GL.** The sting in the tail. Penicillin allergy. Microbiology Australia 1998;19:15-16.
19. **Gilbert GL.** Tuberculosis: global resurgence of the “great white plague”. Mod Med 1999.
20. **Gilbert GL.** Parvovirus B19 infections during pregnancy. O&G 2000;25-27
21. **Gilbert GL.** How relevant is susceptibility testing to antimicrobial practice? Guest Editorial. Microbiology Australia, 2000;21:4
22. **Gilbert GL.** New technology in infectious diseases and public health microbiology. Microbiology Australia, 2001;22:1
23. **Gilbert GL.** A resistant culture – “superbugs” in Australian hospitals. Microbiology Australia 2007; 26:182-185. (Invited Review)
24. **Gilbert GL.** In that case: response: Public health dilemmas concerning a two-year-old hepatitis-B carrier. Journal of Bioethical Inquiry 2008;5:85-6. (Invited Comment)
25. **Gilbert GL.** Improving foodborne disease surveillance in NSW. NSW Public Health Bulletin. 2008; 19:1-2. (Guest Editorial)
26. **Gilbert GL.** Toxoplasmosis in pregnancy - often suspected, rarely convicted. Microbiology Australia; 2008;29(4): 188-90. (Invited Review).
27. **Gilbert L.** Breaking the cycle. International Innovation. November 2012 pp 82-84 Invited paper
28. Hazelton B, **Gilbert GL.** Pertussis. Australian Doctor 2013 (Invited Review)
29. **Gilbert L.** Battling bacteraemia. International Innovation. 2014; Issue 137; pp 15-17 Invited paper.
30. **Gilbert GL,** Iredell J, Merlino J. (Guest Editors). Hospital acquired infection, susceptibility testing and infection control. Microbiol Aust 2014;35:3-4. (Editorial) Healthcare infection and prevention really is everyone’s business.
31. **Gilbert GL.** Hospitals as amplifiers of infectious diseases. Microbiol Aust 2014;35:5-8 (Invited Review)
32. **Gilbert GL** Collignon P. Out of Africa: response to Ebola in the developed world; lessons for the future. Microbiol Aust 2015;36:144-7. (Invited Article)
33. **Gilbert GL.** Ebola 2013-2015 – how long will the memory last? Australian Outlook. Australian Institute of International Affairs. (commissioned article).
http://www.internationalaffairs.org.au/australian_outlook/ebola-2013-2015-how-long-will-the-memory-last/
34. **Gilbert GL.** Acknowledging the hitherto unrecognized burdens of antibiotic therapy could encourage more appropriate use. AMR Control 2016. World Alliance Against Antimicrobial Resistance.
35. **Gilbert GL.** Infections in pregnancy. Medicine Today July 2016

SELECTED ORAL PRESENTATIONS; LOCAL, NATIONAL, INTERNATIONAL
(excluding talks at Westmead Hospital or student presentations).

1986

- International Organisation for Mycoplasmaology (IOM); Symposium on ureaplasmas: Invited presentation: *U. urealyticum* in pregnancy; relationship to pre-eclampsia, Birmingham, Alabama, USA

1991

- International Symposium on Epidemiology of *Haemophilus influenzae* type b (HIB) disease: Invited presentation: HIB disease in Australia, Barcelona, Spain

1998

- Media Science Forum, University of Technology, Sydney. Emerging Infectious Diseases.

- Australasian Society for Infectious Diseases (ASID), annual conference: (i) Richard Kemp Oration; (ii) Invited symposium presentation. “Mycoplasmas in Immunocompromised Patients”
- European Laboratory Working Party on Diphtheria. Halkidiki, Greece. “*Corynebacterium diphtheriae* infections in Australia”.
- International Organization for Mycoplasmology. Invited speaker: “Ureaplasma infections and complications of pregnancy.”
- Communicable Diseases Conference, Canberra. “Role of Public Health Laboratories in communicable disease surveillance”.

1999

- Vernon Pleuckhahn Oration, Geelong Hospital. “From Broad St. to Prospect via Milwaukee”.
- ASID annual conference. (i) Invited symposium presentation: “Use of nucleic acid detection techniques in diagnosis of infectious diseases.” (ii) President’s Oration. “History of ASID”

2000

- ASID annual conference: Proffered papers. (i) “Serosurveillance of measles & rubella”; (ii) “Prevention of group B streptococcal infections”
- XIV Lancefield International Symposium on Streptococci and Streptococcal Disease, Auckland. Oral presentation: “Selection of pregnant women for intrapartum antibiotic prophylaxis against neonatal group B streptococcal sepsis”.
- European Laboratory Working Group on Diphtheria. Thessaloniki, Greece, “Diphtheria in Australia.”

2001

- Communicable Diseases Control Conference, Canberra: (i) Invited presentation: “Role of PHLN in Emerging Infectious Diseases”; (ii) Panel: “Hypothetical – influenza pandemic?”
- Royal Australasian College of Physicians annual conference. “Resurgence of Tuberculosis”
- Australian Society for Microbiology (ASM) annual conference: Invited presentations: (i) President’s Address “Notable Australian Microbiologists”; (ii) Symposium “Multidrug resistant tuberculosis”.
- Conference on Emerging Infectious Diseases in Indian Ocean Region: “Role of PHLN in EID”
- ASM, Tasmania: Invited presentation: “Prevention of group B streptococcal disease”
- Royal Australasian College of Obstetrics & Gynaecology annual conference: “Infections in Pregnancy”.

2002

- ASM annual conference, (i) President’s address; (ii) Symposium: “Genotyping of group B streptococcus”
- Safety & Quality Council, Workshop on Healthcare Associated Infections. Opening address
- ASM, Tristate, Alice Springs: Invited presentations (i) “Multidrug resistant TB”; (ii) “Serosurveillance of Vaccine Preventable Diseases”; (iii) “Bioterrorism”
- National Women’s Health Symposium. “Infections in Pregnancy”.

2003

- Royal College of Pathologists of Australasia (RCPA) annual conference. Invited presentation: “Varicella virus in healthcare workers.”
- Combined Australian and New Zealand Societies for Microbiology, Auckland NZ. Oral presentation: “Molecular Markers of group B streptococcus virulence”
- NCIRS Symposium, Pneumococcal disease. “Laboratory Surveillance of invasive pneumococcal disease.”

2004

- RCPA Annual Update. “Bioterrorism”
- International Congress on Eye Research. Invited Symposium speaker: “Congenital toxoplasmosis and eye disease”.
- ASM annual conference; Invited Symposium presentations: (i) “Update on two unusual neonatal pathogens”; (ii) From raw data to cost-effective healthcare”.
- Molecular Epidemiology and Evolutionary Genetic of Infectious Diseases (MEEGID), Valencia, Spain. Proffered paper: “Molecular epidemiology of group B streptococcus.”

- Public Health Association of Australia, Cairns. “National Serosurveys of Vaccine Preventable Diseases.”

2005

- Peking University, Tianjin Medical University and Shenzhen Chronic Diseases Hospital, PR China. Presentations on: “Molecular methods in microbiology”.
- ASID annual conference, Busselton WA. “Laboratory contribution to the diagnosis of tuberculosis.”
- Communicable Diseases Control Conference, Sydney. “Future directions in public health – laboratory aspects.”
- Australian Institute of Medical Laboratory Scientists, Sydney. “Ureaplasmas in adverse pregnancy outcomes”.
- Interscience conference on Antimicrobial Agents and Chemotherapy (ICAAC), Washington. Proffered paper: “Risk assessment for GBS disease using molecular fingerprinting”
- Lancefield International Conference on Streptococci and Streptococcal Infections, Cairns: Proffered paper: “Risk assessment for GBS disease using molecular fingerprinting”.

2006

- RCPA Annual Update: Invited presentation “Infections in Pregnancy”
- International Symposium on Pneumococci and Pneumococcal Disease, Alice Springs: “Direct detection and serotype identification of *Streptococcus pneumoniae*”
- ASM annual conference: Invited presentation “Molecular typing of *Staphylococcus aureus*”
- Public Health Association of Australia, Sydney: “Meningococcus group C national serosurvey”
- Conference on Pediatric Pulmonology, HuangShan, China: Invited presentation “Pneumococcal Disease in Australian Children”
- ICAAC; San Francisco, USA: “Molecular typing of *Salmonella* Typhimurium.”
- Royal Australasian College of Physicians: Chapter of Sexual Health Physicians: “Multiplex testing for STI pathogens”
- NSW TB nurses conference: “Immunological assays for diagnosis of TB”
- Centre for Values Ethics and the Law in Medicine (VELIM) seminars: “Ethical issues in hospital infection control and multiresistant organisms”

2007

- University of Sydney, Faculty of Medicine. Invited public lecture: “Great Milestones in Medicine. The Germ Theory of Disease”
- ASM annual conference. Proffered paper: “Distribution of genotypes and antibiotic resistance genes among invasive *Streptococcus agalactiae* (group B streptococcus) isolates from all age-groups.”
- National Centre for Immunisation Research and Surveillance. 10th Anniversary Symposium. Invited presentation: “Seroepidemiology”
- OzFoodNet Annual Symposium. Invited presentation: “MLVA typing of *Salmonella* Typhimurium.”
- International Vaccine Institute. Symposium on Pneumococcal Infections. Seoul, Korea. Invited presentation: “Overview of pneumococcal disease.”
- National Communicable Diseases Conference. Early warning system for Salmonella surveillance based on molecular subtyping (co-author).

2008

- NSW TB Network: Invited presentation: “Molecular typing of *Mycobacterium tuberculosis* in NSW”.
- ASM annual conference: (i) Invited symposium presentation: “Toxoplasmosis in Pregnancy”; (ii) Proffered paper: “Laboratory Role in Healthcare-Associated Infection Control”
- NSW Health Public Health Unit Directors Annual Meeting: Invited presentation: “Salmonella typing”
- Australian Biosecurity Cooperative Research Centre: Biosecurity Symposium, Parliament House, Canberra: Invited presentation: “Bioterrorism”
- NSW Health Communicable Diseases Branch Workshop. Invited presentation: “Foodborne Diseases”.

- American Society for Microbiology; Conference on Emerging Technologies of Medical Importance for the Diagnosis of Infectious Diseases, Beijing China. “Early warning system for foodborne outbreaks of *Salmonella* Typhimurium and temporospatial clustering.” (Co-author)

2009

- National Biosecurity Centre Conference. “Ethical Aspects of Laboratory Surveillance”
- Australian Society for Microbiology, Sydney. Invited keynote: “Moral hazard - does clinical microbiology need a code of ethics?”
- CIDM-Public Health: Molecular Diagnostics Symposium. Opening: “Molecular Diagnostics, 20 years on”
- SWAHS, Infection Control Workshop. (i) “Strategies to Reduce Healthcare Associated Infections in SWAHS”; (ii) “HAI Monitoring and Surveillance”
- ASID annual conference. Proffered paper: “Neonatal GBS disease in Australia, 2005-8”.
- ASM annual conference: Invited Symposium presentation “Genotyping of group B streptococcus”
- NCIRS. Pneumococcal Disease Symposium. “PCR in Pneumococcal Diagnostics”
- ICAAC, San Francisco, USA: (i) Invited presentation: Meet the Experts: “Molecular typing of pneumococci.”; (ii) Oral presentation: “Maximizing typing system discrimination by computerized selection of targets” (co-author)
- CIDM-PH Infection Control Symposium. Debate: “Universal Screening or Universal Precautions?”

2010

- Biosecurity and Ethics Workshop, University of Sydney. Invited presentation: “New technology, communicable disease surveillance and ethics.”
- “Bug Breakfast”: NSW Health PHO training program. “Response to plague in Sydney, 2010”
- Sydney Institute for Emerging Infectious Diseases & Biosecurity (SEIB). Inaugural Symposium. “Hospitals as amplifiers of emerging infectious diseases”
- CIDM-Public Health Symposium on *C. difficile*. “Is *C. difficile* re-emerging in Australia?”
- AMS annual conference: Invited symposium presentations: (i) “Rapid diagnostics in public health microbiology”; (ii) “Career paths in Clinical Microbiology”; (iii) “Monitoring MRSA for infection control”
- NSW Gut Club: “*Clostridium difficile* infection”
- National Sexual Health conference: Invited symposium presentation: “What has PCR contributed to the diagnosis of syphilis?”
- NSW Health “Bug Breakfast”: “*Clostridium difficile*”
- Animal Biosecurity Symposium. Elizabeth MacArthur Agricultural Institute: “Human communicable disease control in Australia”
- ICAAC: Oral presentation: “Tracking MRSA transmission and epidemiology using a rapid 19-target binary typing system” (co-author)
- International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Wernigerode, Germany: Proffered oral presentations: (i) “MLVA genotyping of *Salmonella* Typhimurium for rapid detection of community outbreaks” (co-author); (ii) “Computerised screening for informative microbial epidemiological markers.” (co-author)

2011

- Symposium on Emerging Infectious Diseases: Australian Embassy, Jakarta, Indonesia. “An ethical approach to infection control”
- ReForSe Research Showcase. Surabaya, Indonesia: “Molecular biology & informatics in TB control”
- Shire GPs. Sutherland Division of General Practice: “Emerging Infectious Diseases in the global village”
- Asia-Pacific Society for Infection Control: “An Ethical Framework for Infection Control”
- CIDM-Public Health symposium on Bioterrorism and Biosecurity: “A short history of bioterrorism”

2012

- CIDM-Public Health - short course in Healthcare-Associated Infection; Prevention & Control. “What would you do if you were a patient – Infection Control Ethics.”

- CRE in Critical Infections, Short Course: “What you always wanted to know about Infection Control”
- ASM annual conference; Invited symposium speaker. “Pneumococcal disease: vaccines and antibiotic resistance”
- International Conference on Open Disclosure, Sydney. Proffered paper: “Public Reporting of Healthcare-Associated Infection Data”
- International course in Molecular Diagnostics (CIDM) “Infectious Diseases Diagnostics, past present & future”
- Sydney Institute for Emerging Infections & Biosecurity/Hasanuddin University, Makassar, Indonesia “Infection Control and Healthcare Associated Infection Epidemiology”
- European Congress of Clinical Microbiology and Infectious Diseases, London: Proffered oral presentation. “Prospective molecular typing enhances infection control surveillance for MRSA” (co-author).
- ASID Antimicrobial Resistance conference: Proffered oral presentation. “Nosocomial Pantone-Valentine leukocidin (PVL) positive ST22 MRSA outbreak detected using routine prospective typing based surveillance (co-author).

2013

- CRE in Tuberculosis Control. “Ethics of New Technology for TB surveillance.”
- Greek Australian Medicolegal Conference, Cape Sounio, Greece. Invited speaker. “Who owns microbial genomes? Molecular microbiology, epidemiology & public health ethics”
- University of Sydney delegation to Myanmar Medical Universities: “Infectious Diseases – Prevention and Control”
- Criterion Conferences: Strategic Approaches to Healthcare: HAI symposium: “Ethics and Politics of Infection Control”
- Australasian Virology Society Annual Conference, Queenstown, New Zealand: Invited keynote speaker: “Hospitals as amplifiers of emerging infectious diseases”

2014

- Peking University Medical College Foundation annual conference. Chifeng, Inner Mongolia: “Epidemiology and control of MRSA infections in Australia”
- Australasian Association of Bioethics and Health Law, Perth WA. Oral presentation: “Is hospital infection control doctors’ business?”
- Sydney University Alumni; Quarantine Station: “Hospitals- incubators of community infections”
- ASM annual conference: Invited symposium speaker, Melbourne, 2014: “Hospitals: incubators of (emerging) infections: ethical and political implications”

2015

- Greek Australian International Legal and Medical Conference, Thessaloniki, Greece; Invited speaker: “Ebola virus disease - how infectious diseases expose inequities in healthcare”
- Australasian Association of Bioethics and Health Law, Wellington, NZ: Oral presentation: “Out of Africa: Ebola virus disease – lessons for the future”
- National Reference Laboratory Conference, Sydney. Plenary speaker: “Ebola virus disease (EVD) 2013-15 - how the West responded”
- Australia Fire and Emergency Services Council Conference, Adelaide: Invited speaker: “Ebola virus disease (EVD) in Africa and the world - 12 months on.”
- Australian College of Infection Prevention and Control Annual Conference, Hobart:
 - Plenary speaker: “Ethical implications of infection prevention policies”
 - Invited speaker: Role of whole genome sequencing and new microbiology methods in infection prevention.
- University of Sydney: Politics and Ethics of Infection. Symposium: Structures of Survival: Managing emerging infectious diseases in the twenty first century.
 - Novel methods for engaging doctors in infection control
 - Hospital infection control and Australia’s readiness for Ebola and other EIDs

2016

- Australian Society for Antimicrobials, Melbourne. Florey Oration. The antibiotic era after 75 years. Is it nearly over?
- Australian Society for Medical Research. Sydney, June 2016. Plenary speaker. Integrating microbial genomics, epidemiology and ethnography to improve healthcare infection prevention
- Australian College of Infection Prevention and Control. November, 2016. Melbourne.
 - Invited Presentation – Best papers of 2016;
 - Proffered paper. Interprofessional Perspectives on Doctors' Roles & Responsibilities in Healthcare-Associated Infection Prevention and Control
- Australasian Association for Bioethics and Health Law, November, 2016. Melbourne. Proffered paper. Doctors & Hospital Infection Prevention and Control (IPC). Is Medical Professionalism the Solution or the Problem?

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- Australian Lawyers' Alliance Medical Law Conference. Sydney, July 2017. "Infectious Complications of Hospital Care".
- Austin Hospital. Smallwood Oration. August, Melbourne. "Changing perceptions of infectious diseases: 50 years on"
- Australian College of Infection Prevention and Control. Hobart, November 2017.
 - Invited presentation. "Using Video-reflexive Methods (VRM) in IPC Research and Training."
 - Invited presentation. "What makes an effective IPC programme?"

2018

- University of Singapore, Centre for Biomedical Ethics. Symposium on Big Data Ethics. "Communicable Disease Surveillance, Pathogen Genomics and Big Data"
- Australasian Society for Infectious Diseases, HICSIG. July 2018, Melbourne. "Is Australia Ready for the next disease X?"
- Australasian Association for Bioethics and Health Law, September 2018. Townsville. Proffered paper. "Doctors' Roles in Politics and Ethics of Hospital Infection Control".
- Australian College of Infection Prevention and Control, November 2018. Brisbane. Invited presentation. "Infection Prevention in Returning Travellers"

JOURNAL EDITORIAL AND REVIEWS

Editorial:

- Editorial Advisory Board Member. Journal of Paediatrics and Child Health, member (1991-1999)
- Editorial Board Member; Section Editor: Infection, Disease and Health: (2015-...)
- Section Editor: Infection Disease and Health (2015-)
- Associate Editor: International Journal of Epidemiology (2015-)

Reviewer:

- American Journal of Bioethics
- American Journal of Public Health
- Australia and New Zealand Journal of Obstetrics & Gynaecology
- BMC Infectious Diseases
- BMC Microbiology
- British Journal of Obstetrics & Gynaecology
- British Medical Journal
- BMJ Open
- Clinical Infectious Diseases
- Communicable Diseases Intelligence
- Epidemiology & Infection
- Gastroenterology & Hepatology
- Healthcare Infection

- Internal Medicine Journal
- International Journal of Epidemiology
- Journal of Antimicrobial Chemotherapy
- Journal of Bioethical Enquiry
- Journal of Clinical Microbiology
- Journal of Infectious Diseases
- Journal of Medical Ethics
- Journal of Medical Microbiology
- Journal of Paediatrics and Child Health
- Lancet
- Lancet Infectious Diseases
- Medical Journal of Australia
- Microbiology Australia
- Obstetrics & Gynecology
- Pathology
- Pediatrics
- Pediatric Infectious Disease Journal
- PLoS One
- Public Health Ethics
- Sexual Health
- Social Science and Medicine

SUMMARY OF MAJOR ACHIEVEMENTS

Professional philosophy: My professional career has been driven by several principles:

- a) that clinical microbiology and infectious diseases services should be fully integrated;
- b) that research and development are essential to achieving and maintaining high standards within clinical and laboratory services;
- c) that diagnostic services (e.g. development and evaluation of new tests), infectious disease clinical practice (especially antimicrobial prescribing), infection prevention and control (compliance with evidence-based practice) should be grounded in a sound ethical framework;
- d) that an important role of professional mentor/supervisor is to stimulate enthusiasm in students and trainees and encourage them to incorporate continued learning, research and ethical principles into their future careers;

Although employed as a hospital staff specialist and head of department, for 35 years, I have maintained an active research program, driven by clinical and/or public health questions and needs, throughout my career and encouraged staff in these departments to become involved in research.

I have had honorary academic appointments, taught undergraduates and supervised postgraduate students in several departments at both Universities (Melbourne and Sydney) with which I have been affiliated. Collaboration with postgraduate students, trainees, departmental colleagues and colleagues at other hospitals and universities has enabled and enriched my research - which has been supported by competitive grants, continuously, for 25 years - and contributed to maintenance of the highest possible standards of service.

1979-91: Infections in women and children

- Established national/ international reputation as an expert in obstetric, gynaecological, congenital, neonatal and paediatric infections
- Co- edited book on "Clinical Pathology of Pregnancy and the Newborn Infant" (1984); sole author of book on "Infections in Pregnancy in the Newborn Infant" (1991), which sold out and was reprinted; guest editor of Bailliere's Clinical Obstetrics & Gynaecology edition on Infectious Diseases (1993).
- As Director of Microbiology and Infectious Diseases at the Royal Children's Hospital, Melbourne, I was the first medically trained microbiologist at any Children's Hospitals in Australia (all had scientist microbiologists in charge of microbiology laboratories); I established the **first clinical paediatric infectious disease (PID) service in Australia** and trained several paediatricians, who are now prominent PID specialists. Paediatric infectious disease is now a major subspecialty.
- Research highlights include:

- Described epidemiology and an evidence base for prevention of **neonatal group B streptococcal infections**;
- Described epidemiology of childhood *Haemophilus influenzae type b (Hib) infections* (once the commonest cause of childhood bacterial meningitis) in Australia and an evidence base to support introduction of Hib vaccine in Australia;
- Drew attention to **chlamydial infections** as the major cause of tubal infertility (at a time when sexually transmitted chlamydial infections were largely ignored in Australia);
- Demonstrated the efficacy of filtration of blood in **prevention of transfusion-acquired neonatal CMV infections**

1991-2010:

Diagnostic & public health microbiology

- 1991-2010. Led **reorganization** of Westmead Hospital Clinical Bacteriology, by integrating diagnostic, public health microbiology, and later virology, into a single service and the largest of its kind in Australia (**Centre for Infectious Diseases and Microbiology (CIDM)-Laboratory Services**)
- Established training, further **education and research** and development (R&D) programs for RCPA trainees and laboratory scientists and encouraged them to undertake R&D projects and, in some cases, higher degrees.
- Established one of the first **molecular microbiology diagnostic units** in Australia; scientists employed and trained in this unit have been leaders in molecular microbiology in Australia and developed an extensive suite of in-house diagnostic, using best practice methods for evaluation and quality assurance.
- Modernized specialist the CIDM public health reference laboratories and established close links with NSW Health Communicable Diseases Branch; initiated development of methods to **improve speed and quality of laboratory surveillance of communicable diseases of public health importance**.
- 1997. Established and led (until 2010) a system for **national serosurveillance of vaccine preventable diseases** in association with the National Centre for Immunisation Research and Surveillance (NCIRS)
- In 2003, led a competitive application for a NSW Public Health **Capacity Building Infrastructure Grant (CBIG)**, which was successful in obtaining \$0.5 million for research and development into improved strain typing methods pathogens of public health significance. **CIDM-Public Health** established with these funds, providing leverage for addition competitive grant funding. Subsequent successful applications (total \$4.5 million) over 10 years under leadership of GLG and later her successor has meant that CIDM-Public Health has been funded continuously for 16 years.

National/State communicable disease control leadership and expert advice

- In **1997**, as a member of Communicable Diseases Network, Australia (CDNA) and the National Communicable Disease Surveillance Strategy group, **established the national Public Health Laboratory Network (PHLN)** and was appointed its first chair. PHLN now has a major role, which is complementary to that of CDNA, in the national communication disease surveillance and control and biosecurity programs.
- In 2001, in the wake of anthrax attacks in the USA and a growing concern about bioterrorism, successfully lobbied for the **establishment of a high security (PC4) laboratory at CIDM** (one of only two in Australia at the time); NSW Health funded construction, on-going maintenance and staffing. Since **2004** it has played a leading national role in establishing testing for exotic and emerging infectious diseases of public health significance including SARS, MERS, Ebola and COVID-19.
- Served on numerous Commonwealth, NSW and WHO expert advisory committees, working parties and review panels over many years and undertook a number of hospital department reviews and consultancies.
- 2013-4 Appointed to Chief Medical Officer's Clinical Advisory Committee on Lyme Disease in Australia

Infection prevention and control

- **2005** - invited to chair a panel established, at the request of the NSW Premier, by the Quality and Safety Branch of NSW Health, to develop a program for control of multiresistant organisms in NSW Hospitals. This led to a consensus conference, guidelines for hospital and establishment of a program of mandatorily reportable healthcare-associated infection (HAI) indicators for NSW hospitals.
- **2005-2014** – chair **HAI Expert Advisory Subcommittee (EAS)** - provides advice to HAI Steering Committee and develops infection control policies and guidelines for NSW hospitals.
- **2011** – Chair **NSW Health Minister's Taskforce on Infection Control**

- **2014-5** - Appointed as Chair of national **Infection Prevention and Control Expert Advisory Group** (IPCEAG) to advise the Chief Medical Officer, CDNA and the Australian Health Protection Principle Committee (AHPPC) on management of **Ebola virus disease** in Australian healthcare settings.
- **2020** - Established and chaired new **Infection Control Expert Group (ICEG)** to advise AHPPC on infection prevention and control of COVID-19 in hospitals, community healthcare and residential care settings and the community.

Applied research, development and translation

- **1997:** member of a team, led by Professor Margaret Burgess (Children's Hospital, Westmead), which was awarded tender to establish that **National Centre for Immunisation Research and Surveillance**, which included establishment of a national **vaccine preventable disease serosurveillance program** which I led until 2012.
- **2003** – established and became Director of CIDM-Public Health - a research group within CIDM to co-ordinate public health-related research programs among senior medical and scientist researchers (including bacteriology, antibiotic resistance, virology, mycology, parasitology and medical entomology).
- CIDM-Public Health awarded competitive **NSW Health Capacity Building Infrastructure Grants** in 3 consecutive funding rounds (total **\$4.5 million** over 9½ years), based on evidence of continuous increases in competitive research grant funding, commissioned research, publications, translation of research into policy and practice, postgraduate scholars and other education and training activities.
- 2013-16 NHMRC funding for an infection, prevention and control (IPC) research using videoreflexive ethnography to raise healthcare workers' awareness of pathogen transmission and improve IPC practices which has led to

Service to professional organisations

- Served on councils and been elected president of 3 professional organisations: Venereology Society of Victoria; Australasian Society for Infectious Diseases (ASID); Australian Society for Microbiology (ASM). Received awards from both national societies:
 - ASM - distinguished service award; Lyn Gilbert Clinical Microbiology Award established; honorary life membership
 - ASID - honorary life membership

Ethics

- Awareness of ethical dilemmas associated with such issues as.....:
 - resource allocation in departmental budget decision-making and introduction of new diagnostic tests;
 - political influence on decision-making and communication relating to communicable disease control;
 - social determinants of infectious disease risks;
 - conflicts of interest in choice and inappropriate use of antimicrobial agents;
 - failure of some healthcare organisations and staff to implement and comply with evidence-based infection prevention measures (leading to preventable healthcare-associated infections);
 - potential risks of implementation of new technology in communicable disease surveillance
 - stigmatisation of, discrimination against or insensitivity towards patients with some types of infection or colonization etc.

.....prompted me to undertake a Master of Bioethics degree (completed 2004), undertake research, write papers, submit abstracts for conference presentations and enroll in a part-time PhD (in 2013), to explore these issues in greater depth and attempt to raise awareness of and improve practice in infectious disease and infection control ethics (current part-time PhD Scholar, Sydney Health Ethics: Ethics & Politics of Hospital Infection Prevention and Control).

Media

- Over many years I have responded to requests for expert comment on radio, television (ABC, BBC and local radio) and in print on-line newspapers (Canberra Times, Sydney Morning Herald, Guardian, Australian Financial Review, Conversation, Croakey) on matters relating to various topical infectious disease and infection control issues (including, 2014-15 Ebola virus disease; 2020 COVID-19).

