



Biosecurity and Biocontainment International Consultants Pty Ltd (Bio2ic)

CURRICULUM VITAE

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A. CONSULTATION ROLES

- 2017- Consultant to Multiplex for the compliance of the construction of the Telethon Kids Institute (TKI) laboratories and bioresources at the Perth Children's Hospital
- 2015-2018 Consultant to Hong Kong Department of Health for biocontainment review of the design of the biosafety level 3 laboratories
- 2014 Audit of Microbiology Facilities, University of Tasmania, Sandy Bay, Tas.
- 2014-2016 Consultant to Silver Thomas Hanley Architects for Curtin University Building 304 for Plant Disease Research, Curtin University, Perth WA.
- 2014 -2015 Consultant to Billard-Leece Architects for the Geelong Centre for Emerging Infectious Diseases, Geelong Vic.
- 2013 Report on proposal for PC3 Facility Requirements, Brain and Mind Institute, University of Sydney, Camperdown, NSW
- 2012-2013 Compliance audit of the Baker IDI, Prahran, Vic.
- 2012-2014 Consultant to University of Sydney for the design and construction of the Charles Perkins Centre

2012-2014	Consultant to SKM-S2F for Biosecurity review of the design of the proposed DAFF Post-Entry Quarantine Facility.
2011-	Consultants to EMEC Technology for the Malaysian Institute of Medical Research, Kuala Lumpur, Malaysia
2011-2016	Consultants to John Holland for biocontainment and animal facilities at New Children's Hospital, Perth
2010-2011	Consultants to Bill Ross & Associates for AQIS Post Entry Quarantine Start-Up Consultancy
2010	Consultants to Aptus for accreditation requirements of Victorian Collaborative Cancer Centre tender preparation
2010-2011	Consultant to Honeywell for advice on compliance requirements for Bioscience Research Centre operations and maintenance
2009 - 2010	Consultants to EMEC Technology, Kuala Lumpur, for design and construction of BSL-3 tuberculosis laboratory for University of Malaya
2009 -2011	Consultants to Grimshaw Architects for preparation of a strategic brief for the Peter Doherty Institute for Immunity and Infection, University of Melbourne
2009 - 2012	Consultants to NSW Primary Industries for peer review of design and construction of the biosecurity upgrade to Elizabeth Macarthur Agricultural Institute, Camden
2009 - 2010	Consultant to the John Curtin School of Medical Research, ANU, for the preparation of a PC3 Safety & Operations Manual
2009	Consultants to the Australian Centre of Excellence for Risk Management for a review of Australian PC3 and PC4 facility needs in relation to the AAHL-NCRIS facilities
2009-2010	Consultants to Bovis-Lend Lease for review of laboratories in the Royal Children's Hospital, Parkville Project
2008-2009	Consultant to Baulderstone's for biocontainment advice for the Alfred Hospital Stage 2 building (PC2 and PC3 laboratories)
2008	Consultant to Direkt Consulting for the drafting of the Australian Standards for Security Sensitive Biological Agents for the Department of Health and Ageing as part of the National Health Security Act:2007

2008-2012	Consultant to Johnstaff Projects for provision of accreditation requirements and advice for the Bioscience Research Centre for Major Projects Victoria (a \$A230 million project including PC2 and PC3 facilities)
2008	US Civilian Research and Development Agreement for the provision of biosafety and biosecurity training and assessment of biosafety level 3 facilities in Manila, Philippines
2008	WHO/CDC Technical Consultation on Strategies, approaches, and Preparedness for Improving Global Laboratory Biosafety, 2-4 September, 2008, Atlanta, Georgia, USA
2008	Consultant to JCY Architects, Perth, for the biocontainment and laboratory requirements for the PathWest Stage 1 facility in Perth, WA (containing both PC3 and PC2 laboratories)
2007	Audit of MAF Investigation and Diagnostic Centre Laboratory, Wallaceville, Upper Hutt, New Zealand for Biosecurity New Zealand
2007-2008	Consultant to Johnstaff Projects for the design and planning of the PC2 and PC3 laboratories for the WHO Collaborating Centre for Reference and Research in Influenza being relocated to the Victorian Infectious Diseases Reference Laboratory, North Melbourne
2006-2007	Consultant to Barwon Health to review PC1 and PC2 laboratories at Geelong Hospital
2006	Advice to Lyons Architect on virology laboratories in new John Curtin School of Medical Research, Australian National University, Canberra, ACT
2006	Consultant to the South Australian Department of Health for the development of concept plans for a PC3 laboratory facility at the Institute of Medical and Veterinary Science (IMVS), Adelaide
2006	Consultant to WHO "1st Workshop on Laboratory Biosafety and Biosecurity" for WHO Eastern Mediterranean Region held in Tehran, Iran 28-31 October
2006	Consultant to the Pasteur Institute, Ho Chi Minh City, Vietnam, for the development of concept plans for a BSL-3 and BSL-2 laboratory complex
2006	Consultant to WHO for assistance to the China Centre for Disease Control, Beijing, in the development of process for gathering information about BSL-2 Laboratories in China and for provision of biosafety advice

2006-2008	Consultant to the Northern Territory Department of Planning of infrastructure of the design and review of construction of a PC3 laboratory at the Royal Darwin Hospital
2005 – 2006	Consultants to the New South Wales Department of Commerce for concept planning and advice on a PC3 laboratory for the NSW Police Forensics in Sydney
2005	Consultant to Li Ka Shing Foundation for inspection of the Joint Influenza Research Facility of Shantou University and University of Hong Kong, Shantou, China (a BSL-3 facility)
2005	Consultant to WHO as part of an inspection team for the smallpox laboratories at the Centres for Disease Control, Atlanta, USA, and VECTOR, Novosibirsk, the Russian Federation
2006	Consultant to SQ Architects for the design and specification of the Avian Influenza Facility, National Institute of Animal Health, Bangkok, Thailand
2005	Consultant to Tysan Project Management for the design and construction of a BSL-3 laboratory in the Pathology Department, Queen Mary Hospital, University of Hong Kong.
2005	Consultant to Curtin University regarding assessment of the design for the PC3 laboratory attached to the vivarium
2004-2005	Consultant to Theiss engineering to provide biocontainment and design advice for the PC3+ microbiology facility to be constructed at Westmead Hospital for the Institute of Clinical Pathology and Microbiology Research (ICPMR)
2004	Consultant to Australian Department of Health and Ageing on an “Examination of Australia’s Medical Diagnostic Laboratory Capacity for Disease Emergencies and Bioterrorist Events and Scoping of a Stockpile of Diagnostic Kits”
2004	Consultant to Australian Department of Health and Ageing for a “Scoping Study on the Development of a National Register of Laboratories that Use Human Pathogens”
2004-2005	Consultant to American Type Culture Collection under a National Library of Medicine grant to provide training and initiate the entry of virus isolate data into the International Virus Database (ICTVdB)
2004	Consultant to Consultant to CSIRO to provide a report for the Sub-Committee on Animal Health Laboratory Standards on “Accreditation of Veterinary Laboratories in Australia”

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- 2004 Consultant to CSIRO to provide a report for the Australian Animal Health Committee and the Sub-Committee on Animal Health Laboratory Standards on “Control of Biological Agents in Australian Veterinary Laboratories”
- 2004 WHO consultancy as a member of a team of experts to investigate a SARS-Coronavirus laboratory infection in Taiwan and to advise on biological safety requirements for Taiwan
- 2003 WHO consultancy to Singapore Ministry of Health (Leader of Joint CDC-WHO Team of Experts) to investigate SARS-Coronavirus Infection and to advise on future biological safety and security requirements
- 2003-2004 Consultancy to the New Zealand Ministry of Health regarding their biosecurity needs for the next decade to meet terrorism issues and emerging diseases
- 2002-2005 Consultancy to the Department of Microbiology, University of Hong Kong regarding proposed Biosafety level 3 and 4 facilities for studies of avian influenza and high risk diseases (including SARS), which included laboratories and animal facilities (now commissioned as the University of Hong Kong’s Research Centre for Emerging Infections)
- 1999-2002 Provision of advice to United States Department of Agriculture on their biocontainment facilities
- 1998 Consultancy for the Victorian Trades Hall and Hansen Yunchen on safety issues relates to medical waste on the Fairfield Hospital site
- 1998 Consultancy to the Queensland Department of Health on the construction of a Biosafety level 3 and level 4 laboratories at Coopers Plains, Brisbane
- 1989-2007 Provision of Advice to a range of Australian Government Committees on biocontainment, biosecurity, transport of infectious and responses to infectious disease emergencies

B. EDUCATIONAL QUALIFICATIONS

- 2003 Graduate Member Australian Institute of Company Directors (G.A.I.C.D.)
- 2001 Awarded Honorary Membership of Australian Veterinary Society
- 1992 Awarded Fellowship of the Australian Society for Microbiology (F.A.S.M.)
- 1976 Awarded Membership of the Australian Society for Microbiology (M.A.S.M.)
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| 1975 | Graduated from Monash University with Ph.D. for thesis titled "A Study of Arboviruses: the Structure, Immunochemistry and Mechanism of Neutralization of Group B Togaviruses (Flaviviruses)" |
| 1970-72 | Ph.D. Studies at Monash University, Department of Microbiology, under the supervision of Dr. E.G. Westaway |
| 1969 | Graduated with B.Sc. (Hons) in Microbiology from University of Sydney with a thesis on "A Study of the Herpes Simplex Virus Using the Fluorescent Antibody Method" |
| 1964 | Matriculated N.S.W. Leaving Certificate Exam |
| 1960-64 | Attended The Scots College, Bellevue Hill, N.S.W. |

C. MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

American Biosafety Association
American Society for Microbiology
Association of Biosafety for Australia & New Zealand
Australian Society for Microbiology
Australian Institute of Company Directors
Australian Institute of Agricultural Science and Technology
International Veterinary Biosafety Working Group

D. PROFESSIONAL ACTIVITIES

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| 2013 | Elected to the Board, International Federation of Biosafety Associations (IFBA) |
| 2013-2014 | Past President, ABSANZ |
| 2010 | Becoming founding member, Director and President of the Association of Biosafety for Australia & New Zealand (ABSANZ) |
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2005	Invited to present papers, run a workshop and a master class at the WHO and China Ministry of Health International Conference on Laboratory Biosafety, Beijing, 4-6 November 2005
2005	Participated in World Health Organisation Meeting on Managing Biorisks in Laboratory Environments, Lyon, France
2004	Participated in International Biosecurity Conference at Sandia Laboratories, Albuquerque, New Mexico, United States of America (February 2004) for the Australian Department of Foreign Affairs and Trade (Arms Control Section)
2003	Co-ordinated workshop for training of virus isolate data entry into the ICTVdB, Danforth Center, St Louis, Mo, USA.
2002-2005	Elected Member of the Virology Section Advisory Board of the International Union of Microbiological Societies
2001-Present	Member of National Chemical, Biological and Radiological Working Group (Australia)
2000-Present	Co-ordination of laboratory response to bioterrorism incidents for the Public Health Laboratory Network
2000-Present	Member of the Commonwealth Panel of Expert Advisors for Crisis Management (CAPE)
1999-Present	Responsibility for coordination of advice and diagnostic services for incidents of biological terrorism or threats for the Public Health Laboratory Network
1999-2005	Member of the ICTV Executive Committee
1999-2002	Elected Member of the Virology Section Advisory Board of the International Union of Microbiological Societies (this consists of 6 international representatives)
1999-2005	Chairman, ICTV Virus Data Sub-Committee (Responsible for the International Virus Database – ICTVdB)
1999-2000	Member Animal Industries Public Health Committee
1998-Present	Member of the Public Health Laboratory Network
1998-1999	Member of Organising Committee, International Union of Microbiological Societies Congresses, Sydney, 1999
1995-2008	Member of Editorial Board of Microbiology Australia
1992-1999	Chairman, Australian Society for Microbiology, Standing Committee on Biosafety

1992	Member of Writing team, "Rift Valley Fever" for AUSVET PLAN
1991-2003	Designation of AAHL as an OIE Reference Laboratory for Newcastle Disease and Highly Pathogenic Avian Influenza and Dr Della-Porta as the OIE Expert
1991	Contributor, The Merck Veterinary Manual, 7th Edition, Merck, Rahway, N.J.
Sept 1991	Contributed to 8th International Meeting on Negative Strand Viruses, Charleston, SC, USA
Feb 1991-2005	Member of ICTV Virus Data Committee
Feb 1991	Participated in Executive Meeting of International Committee on Classification of Viruses (ICTV), Centers for Disease Control, Atlanta, Georgia, USA.
Sept 1990	Contributed to 8th International Congress of Virology, Berlin, Germany
1990-91	Convenor, Research and Communications Working Group, Geelong Economic Summit
1989	Elected Vice-President, Geelong Technology Centre Inc.
1988-89	Organised Symposium Session on "Advances in Veterinary Diagnostic Microbiology" for Australian Society for Microbiology Annual Scientific Meeting, Adelaide, July 2-7, 1989
1988-89	Convenor, Organising Committee, Symposium on "Australian Perspectives in Veterinary Virology" to be held at AAHL, May 1989
1988	AIDAB Consultant to Research Institute of Veterinary Science, Bogor, Indonesia (June-July 1988)
1987-1992	Member Geelong Technology Centre Committee
Aug 1987	Contributed to 7th International Congress of Virology, Edmonton, Canberra
1986	Member of Deakin University Committee on M.Sc. (Biotechnology)
1984-85	Editor of Veterinary Viral Diseases: Their Significance in South-East Asia and the Western Pacific, Academic Press, Sydney (1985)
Sept 1984	Contributed to 6th International Congress of Virology, Sendai, Japan
Jan. 1984	Contributed to International Symposium on Bluetongue and Related Orbiviruses, Asilomar, California
1983-84	CSIRO Representative on Organising Committee for ANZAAS (1984) "Exotic Diseases Symposium"

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| 1983-84 | Member of Advisory and Program Committee for International Seminar on Virus Diseases of Veterinary Importance in South-East Asia and the Western Pacific (held August, 1984) |
| 1983 | Joint organiser of "Forum on Foot-and-Mouth Disease Diagnosis" held at Australian Academy of Science, Canberra (Oct. 1983) |
| Oct 1982 | Contributed to 4th International Conference on Comparative Virology, Banff, Canada |
| Oct 1982 | Contributed to Double-Stranded RNA Virus Symposium, US Virgin Islands |
| 1982-84 | Member of the Orbivirus Classification Committee of the Reoviridae Study Group of the International Committee on Taxonomy of Viruses |
| 1982-84 | Member of WHO/FAO Comparative Virology Program Bluetongue Virus Working Party and Co-ordinator of Serological Techniques Team |
| Aug 1981 | Contributed to 5th International Congress of Virology, Strasburg, France |
| 1981-84 | CSIRO Officers Association, member of politician pairing scheme |
| Aug 1978 | Contributed to 4th International Congress of Virology, The Hague, Netherlands |
| 1976-77 | Member of the Organising Committee of 1977 Annual Scientific Meeting of the Australian Society for Microbiology |
| 1975-76 | Australian Society for Microbiology, Victorian Branch Chairman |
| 1975-77 | Australian Society for Microbiology, National Council member |
| 1974-75 | CSIRO Officers Association, representative for Animal Health Research Laboratory on Victorian Council |
| 1973-77 | Australian Society for Microbiology, Victorian Branch Committee member |
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E. EMPLOYMENT DETAILS

2003-Present	Managing Director, Biosecurity and Biocontainment International Consultants Pty Ltd. (Bio2ic)
2002-2003	Manager Biosecurity, Information and Safety Services, CSIRO Livestock Industries
2001-2002	Manager Information Technology and Services, CSIRO Livestock Industries
1995-2002	Manager Technical and Support Services, CSIRO Livestock Industries, Animal Health, Australian Animal Health Laboratory, Geelong
Jan 1990-1995	Deputy Head of Laboratory, Australian Animal Health Laboratory, Geelong
Apr - Oct 1989	Acting Head of Laboratory, Australian Animal Health Laboratory, Geelong
1987-1994	Leader of Newcastle Disease Research Project
1983-87	Coordinator of Molecular Virology Program
1983	Transferred from CSIRO Division of Animal Health, Parkville, to CSIRO Australian Animal Health Laboratory, Geelong
1977-78	Visiting scientist at the Animal Virus Research Institute, Pirbright, Surrey, United Kingdom
Dec 1972	Joined CSIRO, Division of Animal Health, Animal Health Research Laboratory, Parkville as an Experimental Officer