

Mary Cole, PhD

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2015 July: *Selected as an International Who's Who Professional of the Year 2015-2016.*

"Our EPE distinction is reserved for members who demonstrate exemplary Leadership skills and unwavering dedication to their profession".

EDUCATION

1998 PhD Monash University 1998 (funded by grant from RIRDC - carried out with SARDI & UCLA, Davis, USA).

An investigation of the taxonomy and distribution of *Stagonospora melliloti* and *Acrocalymma medicaginis*, fungi implicated in red-crown rot of lucerne, *Medicago sativa* L.

2009 Cert IV in Training & Assessment

EMPLOYMENT

1980 to present Director and Principal Scientist for Agpath P/L employing 2 scientific staff.

2017 - continuing

Honorary Senior fellow, Faculty of Veterinary & Agricultural science, University of Melbourne, Parkville, Victoria.

2017

Training international graduates in agricultural engineering in all aspects of biological farming, compost making, compost tea making, soil microbiology leading to soil health by minimising use of chemical salts in agricultural farming systems around the world.

February: Ms Mariam Abouleish, SEKEM Biodynamic Farms, Egypt.

March: Ms Viktoria Stephanova, Ukraine.

(See www.agpath.com.au for testimonials.)

2016

Non-executive Director of Poppy GenetiX P/L, in association with Agpath P/L, Federation University, Churchill, Victoria, and Latrobe Region Agricultural Development in establishing the first planting and processing of medicinal poppies of two varieties in Australia.

2016

Assisting Fijian farmers, agricultural students and council employees in improving soil health to improve productivity of export crops while teaching them how to use available resources in recycling of the commercial waste stream for soil amendment.

Involved in agricultural research and consulting; training of science students from federation University Gippsland campus through Industry Placement Programme; Australian Soil Food Web Laboratory involved in organic and biodynamic agriculture; training farmers in use of organic and biodynamic principles through workshops and seminars; mentoring of agricultural graduates from La Trobe and University of Melbourne; preparation of expert witness briefs for Supreme Courts of Australia.

2016 current expert witness reports active in Supreme Court of NSW and Supreme Court of Victoria

Quality Control validation of biological products for export, sale within Australia and for APVMA registration.

General agricultural consulting and pathogen identification.

Lecturing at Goulburn Ovens Institute of TAFE, Benalla in the Graduate Diploma of Horticulture (viticulture & Oenology).

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2009 – 2012 Part-time lecturer in Faculty of Medicine, Monash University, Clayton.

2005 to 2009 (April) Senior lecturer, Graduate School of Land & Environment, The University of Melbourne, Parkville campus, lecturing in Grad Diploma of Wine Technology & Viticulture and Master of Wine Technology & Viticulture.

Achievements: Academic staff member assisting in developing and presenting Master of Wine Technology & Viticulture to be launched October 2007.

2006-2009 Development, design and writing to print-ready flexible delivery course modules for subjects in NMIT new tertiary degree programme.

1999-2005 Foundation Director of the Centre for Wine, Food & Agribusiness. Course Director of a new Master of Wine Technology & Marketing in association with The University of Melbourne.

Achievements: Introduced wine education to Monash University.

- Introduced a new method of flexible delivery teaching to Faculty of Business & Economics.

- Chaired/edited the writing of 24 undergraduate subjects and 12 postgraduate subjects in flexible delivery mode in 2.5 years with staff from 2 universities and across 3 Monash departments.
- Designed livery for flexible delivery material for the Bachelor & Masters programme.
- Developed cross-accreditation between Monash Centre for Wine, Food & Agribusiness and Bordeaux Business School, France.
- Dean's representative on Faculty Promotion's Board
- Foundation member of Monash mentoring programme for young women academics.
- Established successful Wine Business breakfasts at Federation Square for city corporate managers – national and international speakers – ran monthly - launched by Hon. John Brumby and attended by Lord Mayor John So.

1994-1999 Invited to join staff as lecturer/senior lecturer in viticulture at Charles Sturt University.

Achievements: - Wrote in flexible delivery subjects for new third year level of Bachelor of Viticulture.

- Member Faculty Board – 2 years
- Honours Programme Coordinator – 2 years.

1972-1999 Research assistant/tutor in Department of Botany. Lectured in fungal taxonomy, plant pathology.

Achievements: - Developed new lecturing method for teaching in plant pathology.

1971-1972 Microbiologist – Allied Mills P/L, Melbourne – Patent Development & new product research.

1970-1971 Microbiologist – Campbells (Australia) P/L, Shepparton – new product development.

1964-1970 studying & working – microbiologist/chemist – Sugar Industry Surveillance - Dept of Agriculture, Qld.

Commercial Research – Agpath P/L

Most of the research carried out by Cr Mary Cole and Agpath is commercial-in-confidence and cannot be revealed. No papers result in the public domain.

1990 -1994 Research while at Charles Sturt University.
Director and Principal Scientist of Agpath P/L – currently \$2.7320 million in research and consulting including Federal Government Syndicated Research grant.

Research for product registration for biology product for the AWRI Registered Chemicals Book.
Environmental waste management testing.
Consulting in organic & biodynamic viticulture.

Agpath P/L research

Grants 2004-2010: Research funding from Sustainable Practices Grants with Landcare Cardinia – Healthy soils, Stock & Pasture - \$97000.00.
2010-to present: Significant funding from commercial companies for testing products in statistically validated research trials.
2011 - 2012 – potato industry grant with Ian Smith, Tasmania, to investigate biological farming practices in potato industry as alternative to conventional farming practices. \$20,000

University Research

1999- 2006 – GWRDC – 7 x 3 year grants **Total \$1.027 million**
1999 – present – GVRWGIDC **Total \$59,200.00**
1999-2005 - Faculty grants **Total \$40,250.00**

See below for details.

Publications

Major project was commercial-in-confidence and cannot be reported.
Books, DVDs, Book Chapters, Technical papers, major Technical Reports, Conference Posters, Public Lectures, Workshop lectures.

Memberships from 1994

Member of the Global Alliance of Independent Agricultural Consultants.
GAIAC

Life member of International Who's Who.

Member of Stewards Council of Living Legacy Forest P/L

Recently retired Chair of the Research Committee, Western Port & Mornington Peninsula Biosphere Reserve 2015

Membership of Ecological Agriculture Australia Association

Member of the Australian Institute of Agricultural Science and Technology trading as Ag Institute Australia.

American Phytopathological Society - member

Australasian Plant Pathology Society – member & President of 2005 congress.

Australasian Society of Viticulture and Oenology - member

Great Wine Capitals Global Network – Australian education & research delegate 2003-06

British Mycological Society – member

Australian Institute of Biology - member

Australian Society of Wine Education - member

Mornington Peninsula Vignerons Association – member

The Cooperative research Centre for Viticulture 1 & 2 – member

Mornington & Western Port Biosphere Reserve - Cardinia Shire representative.

Victorian Wine Industry Association – member

Cardinia Environmental Coalition – member

Bunyip Landcare Association – member

Honorary Mycological Consultant to the Victorian Poisons Information Centre out of the Royal Children's Hospital now at Austin Hospital. 1990 to present.

Additional information

- 2016- Member of Professional Organising Body of the Australian Institute of Ecological Agriculture Coop Ltd.
- 2016 – Member of Extension/Consultancy/Research Group of Australian Institute of Ecological Agriculture Coop Ltd.
- 2016 – Member of Living Legacy Stewards Council. See www.livinglegacyforest.com
- 2016 – invitation to Fiji to run workshops for farmers affected by the 2015-2016 cyclones on Taveuni and Navini Islands.
- 2016 – 3 speaking engagements to date; 3 workshops to date and 2 booked; 2 workshops in Fiji and booked for 2017.
- 2015 – 9 speaking engagements; 2 workshops; 3 speaking engagements booked.
- 2014 Appointed Chair of the Biosphere Research Committee.
- 2014 to date – 4x2-day workshops, 5 speaking engagements
- 2014 – visits to schools to talk about biological processes of composting and gardening without chemicals
- 2011 Director of Soilfoodweb Institute, Australia.
- 2011 -2013– presenter of workshops and talks to community groups – 5-10 per year.
- 2008-2009: Scientific advisor to Frankston and Mornington Peninsula Shires Emissions Trading Committee.
- 2007: Member of committee formed to establish an environmental information centre and sustainable energy pilot facility in Baw Baw Shire west of Warragul, in Gippsland.
- 2007-2010: Project leader of a Community Building Initiative Project for Cardinia Shire.
- 2007-2011: Committee Member of Gippsland Women in Local Government.
- 2006 -2009: Chairperson of Annual Red Hill Wine Show Wine Business 1-day Forum.
- 2005: Member of NMIT committee to review submission for Bachelor of Hospitality Management.
- 2003-2005: member of a committee to establish a biosphere on the Mornington Peninsula under UNESCO Seville Strategy for Man in the Biosphere. Mornington Peninsula & Western Port Biosphere established 2005. I was appointed as Cardinia Shire Director on Board for 2005
- 2003: Member of State Government Education Department Committee to determine accreditation of NMIT Bachelor Viticulture & Winemaking.

Grants:

- 1) 2005-2008: Management of Botrytis and other bunch rots by:
 - a) Identification of other bunch rots fungi producing PPOs
 - b) Clarification of Registered Chemical against non-Botrytis bunch rots identified as potential bunch rot pathogens.
- 2) 2003-2004: A survey of variation in strains of Botrytis from budburst to harvest in vineyards and surrounding vegetation in selected wine regions. GVRWGIDC RITA. \$45,000.
- 3) 2002-2004: Barriers to Adoption of Innovation. GWRDC \$5000.

- 4) 2002-2003: Management of Botrytis in Alpine conditions. GWRDC RITA \$2500
- 5) 2002-2004: Implementation of management practices to define best practice for Botrytis management. (GVRWGIDC) Greater Victorian Regional Wine Grape Growers Industry Development Cooperation+ GWRDC (RITA) Regional Innovation & Technology Adoption. \$56,200.
- 6) 2002-2003: Isolation and identification of strains of Botrytis from organic vineyards. Is there something to learn for conventional vineyards? Faculty of Bus Eco. \$14,000.
- 7) 2002-2003: Salary for administrator to manage grants. Faculty of Bus Eco. \$16,000.
- 8) 2001-2005: An investigation of the role of endogenous and exogenous bacteria in grapevine propagation and development (GWRDC) \$101,102
- 9) 2001-2007: Managing trunk vine trunk diseases that threaten the sustainability of Australian viticulture (Part of \$3.4million – 7 year project with Vict DPI, U of Adelaide, SA DPI, Monash) GWRDC- (CRCV) Cooperative Research Centre for Viticulture \$95,044
- 10) 2001-2007: Ensuring optimal wine quality through management for *Botrytis cinerea* (GWRDC)
- 11) 2001-2002: A survey of variation in strains of Botrytis from budburst to harvest in vineyards and surrounding vegetation in selected wine regions. (GVRWGIDC) Greater Victorian Regional Wine Grape Growers Industry Development Cooperation. \$14,440
- 12) 2001-2002: Identification of *Streptomyces* sp in potatoes. Fac of Sc, Monash. \$4000.
- 13) 1999 – 2001: Investigation and understanding of mating strains and latent phase of Botrytis *cinerea* in Australian vineyards and their role in disease variation. (GWRDC) Grape & Wine Research & Development Corporation. \$147,403

Books/Book Chapters:

- Cole, M. Fuhrer, B., & Holland, A A. 1978: A field guide to the common genera of gilled fungi in Australia: Mushrooms and Toadstools. Inkata Press, Melbourne
- Cole, M. Fuhrer, B., & Holland, A A. 1984: Revised edition. A field guide to the common genera of gilled fungi in Australia: Mushrooms and Toadstools. Inkata Press, Melbourne
- Cole, M., Whiting, J & Braybrook, D. 2004: Botrytis Best Practice Protocols. Monash & Five Mile Press.
- Cole, M. 1996. Microbial contaminants and aseptic techniques in plant tissue culture: In: *Tissue culture of Australian native plants* Eds Acram Taji and Richard Williams. University of New England Press, Armidale, NSW.

Papers:

- Brodie, G., Michelle Grix, Eloise Hollins, Andrew Cooper, Tianyao Li, & Mary Cole. 2015. Assessing the Impact of Microwave Treatment on Soil Microbial Populations. *Global Jnl of Agricultural innovation, Research & Development*, **2** (1) pp25-32.
- Viret, O., Keller, M., Jaudzems, VG, Cole, MF. 2004: *Botrytis cinerea* infection of grape flowers: light and electron microscopical studies of infection sites. *Phytopathology* **94**: 850-857.
- Keller, M., Viret, O., **Cole, M. 2003**: *Botrytis cinerea* in grape flowers: defence reaction, latency and disease expression. *Phytopathology* **93**: 316-322.
- Garrett, M H., Hooper, B., Panter, C., Cole, M, Hooper, M. 199: 7 Airborne fungal spores in 80 homes in the LaTrobe Valley, Victoria: levels, seasonality and indoor-outdoor relationship. *Aerobiologia*. 13: 121 - 126.
- Cole, M. 1994: Mushroom poisoning in Victoria. A case of mistaken identity. *Mycologist* 7(1): 32 - 34.
- Cole, M. 1993: A puppy death and *Amanita phalloides*. *Vet. J. Aust.* 70(7): 27 – 28.
- Cole, M. 1993: *Amanita phalloides* in Victoria. *Med. J. Aust.* 158: 849 – 85
- Cole, M, Hallam, N D, & Keage, P L. 1992: The effect of Bacterial Ice Nucleated Manufactured Snow on the Soil and Water Microflora and Vegetation of Falls Creek, Victoria. *Vic. J. Aust. Biotech.* 2(3):109 - 111.

Papers/Reports:

- Cole, M 2007: Management of Botrytis. Australian & New Zealand Grapegrower & Winemaker
- Cole, M 2006: *Botrytis* –a successful pathogen. Technical Edition 2006 Australian & New Zealand Grapegrower & Winemaker
- Waite, H & Cole, M 2005: 'Hot water treatment: cooling the confusion'. Australian & New Zealand Grapegrower & Winemaker April 2005 pp 34-36
- Waite, H & Cole, M. 2004: 'Recent advances in grapevine propagation research'. Technical Edition 2004 Australian & New Zealand Grapegrower & Winemaker
- Cole, M. 2004: Botrytis and its place in the vineyard. Part 2: Distribution of Botrytis in the vineyard. Australian & New Zealand Grapegrower & Winemaker 482:15-18.
- Cole, M. 2003: Botrytis and its place in the vineyard. Part 1: History'. Australian & New Zealand Grapegrower & Winemaker 480: 22-24. National Grapegrowers magazine
- Waite, H & Cole, M. 2003: 'Are bacteria involved in grapevine trunk diseases?'
- Cole, M. 1999: *Botrytis cinerea*: - A fungi that can have a major impact. *Australian Viticulture* 3(3): 9-12.
- Cole, M. 1997: '*Amanita phalloides* in Victoria. Victorian GP The Newsletter of the Royal College of General Practitioners.

- Cole, M & Todd, B. 1995: Noble rot and grey rot- a fungus and wine. *Australian Science* 17(1): 49 - 51.
- Cole, M. 1994: Travel Grant Report. Proceedings of Grasslands Society of Victoria. 35th Annual Conference and Trade Supply, p 187 - 190.

Electronic publications:

- Cole, M. 2006: AVI –Australian Viticulture Investigator. Future Solutions, Adelaide
- Cole, M. 2001: BugMatch -CD-ROM - Viticulture Diseases and Pests. Edition 2. CRCV Technologies
- Cole, M. 1998: BugMatch -CD-ROM - Viticulture Diseases and Pests CRCV Technologies.

Technical Papers:

- Cole, M., and Hallam, N. 2000: The effect of artificial snow making in the alpine vegetation of Kosciusko National Park and Perisher Valley, NSW.' Technical Report to the Alpine Resorts Commission, NSW, January.
- Cole, M & Hallam, N D. 1992: 'Snomax and its influence on the Kosciusko alpine environment.' Confidential report to the Australian Alpine Ski Areas Association.
- Cole, M. 1992: 'Snomax.' Confidential report to Genencor International, USA, producer of Snomax.

Conference papers/posters:

- Scarlett, N & Cole, M. 2007: Primary Bud Necrosis in Victorian shiraz – update. Wine Industry Technical Conference, Adelaide.
- Waite, H., & Cole, M. 2006: The Effects of Water Borne Microorganisms and Hot Water Treatment on Grapevine Propagation and Development. International Trunk Disease Conference, UCLA, Davis, California September.
- Scarlett, N & Cole, M. 2005: Primary Bud Necrosis in Victorian shiraz. Wine Technical Conference, Adelaide.
- Wiechel, T & Cole, M. 2003: The occurrence of *Botrytis cinerea* subspecies, *transposa* and *vacuina* in Australian vineyards. International Botrytis Workshop, Christchurch, New Zealand. 1-2 February, p13
- TJ Wiechel, GE Thomson, DC Joyce, MA Warren and FM Cole. 2003: Effect of grapevine nutrition on Botrytis bunch rot. Combio 2003 Melbourne p38-44.
- Cole, M. 2003: Distribution and compatibility of *Botrytis cinerea* isolates. International Botrytis Workshop, Christchurch, New Zealand. 1-2 February, p12.

- T.J. Wiechel, Cole, M, Whitmore, S. 2003: A survey of *Botrytis cinerea* from budburst to post harvest in regional vineyards in Victoria. International Botrytis Workshop, Christchurch, New Zealand. 1-2 February, p10.
- M. Cole, Wiechel, T., Whitmore, S. 2003: Phyloplane fungi in Victorian vineyards. International Botrytis Workshop, Christchurch, New Zealand. 1-2 February, p11.
- Viret, O., Pezet, R., Cole, M., and Keller, M. 2001: Latency, disease incidence and localization of *Botrytis cinerea* Pers. during the early stages of bloom infection of grapes. 11th Congress of the Mediterranean Phytopathological Union and 3rd Congress of the Sociedade Portuguesa de Fitopatologia (17-20 Sept, Evora, Portugal (pages not known)
- Waite, H and Cole, M 2001: 'The influence of exogenous and endogenous bacteria in young grapevine decline.' Proceedings of the 13th Biennial Plant Pathology Conference, 24-27th September Cairns, Nth Qld p 213.
- T.W Wiechel, Shanks, F., Cole, M., and Mcnaughton, D. 2001: 'The potential of RAMAN spectroscopy for early detection of Eutypa dieback in grapevines. Porceedings of the 13th Biennial Plant Pathology Conference, 24-27th September, Cairns Nth Qld, P164.
- Wiechel, T.J. and Cole, M. 2001: 'A taxonomic and molecular comparison between *Botrytis cinerea* cultures from leaves and berries of *Vitis vinifera*'. Biennial Plant Pathology Conference, 24-27th September 2001, Cairns, Nth Qld, p 167.
- Jaudzems, G., Clark, J., Cole, M., Thornhill, A, and Hallam, N. 2000: 'The effect of artificial snow making in the alpine vegetation of Kosciusko National Park and Perisher Valley, NSW.' Proceedings of the Conference of Electron Microscopy, Canberra, January.
- Jeavons, T. & Cole, M. 2000: 'Cool climate viticulture education in Australia.' Proceedings of the 5th International Cool Climate Conference for Viticulture and Oenology, Melbourne, January p 72
- Jaudzems, G., Clarke, J., Cole, M & Hallam, N. 2000: 'The effect of artificial snow making on the alpine vegetation of Kosciusko National Park and Perisher Valley, NSW'. MicroZopy, Brisbane, Qld. Pages pp not known.
- Rogiers, S., Cole, M., & Keller, M. 2000: Grape leaf & berry cuticular wax as a function of UV radiation and water availability. 5th International Symposium on Cool Climate Viticulture. Jan 16-20. p 70.
- Keller, M., Viret, O., Pezet, R., & Cole, M. 2000: Flower infection and latency of *Botrytis cinerea* in grape vines. 5th International Symposium on Cool Climate Viticulture. Jan 16-20. p 30.
- Cole, M. 1999: 'Strain variation between *Botrytis* isolates from different hosts.' Proceedings of the 12th Biennial Conference of Australasian Plant Pathology, Canberra, ACT.
- Weichel, T., Cole, M., Ashton, K, Warren, M. & Emmett, R. 1999: 'Molecular variation in isolates of *Botrytis cinerea*'. Proceedings of the 12th Biennial Conference of Australasian Plant Pathology, Canberra, ACT. P 27

- Cole, M., & Horsnell, J, Pascoe, I. 1999: 'Morphological characteristics of *Eutypa lata* from grapes'. Proceedings of the 12th Biennial Conference of Australasian Plant Pathology, Canberra, ACT. P26.
- Cole, M. 1998: Distribution of *Stagonospora meliloti* and *Acrocalymma medicaginis*, pathogens causing red-crown rot in lucerne, *Medicago sativa*, in Australia and California.
- Leeton, P., Cole, M., McLouchlin, S., Taylor, P. & Pascoe, I. 1998. Molecular and morphological characters of Australian isolates of *Eutypa lata*. Proceedings of the 7th International Congress of Plant Pathology, Edinburgh, Scotland pp not available.
- Cole, M. 1997: 'Mushroom poisonings in Australia'. Australian Society of Microbiology Conference and Trade Display, Adelaide, South Australia.
- Leeton, P., Cole, M., McLouchlin, S., Taylor, P & Pascoe, I. 1997: 'Molecular and morphological characters of isolates of *Eutypa lata*.' . Proceedings of the 11th Biennial Conference of Australasian Plant Pathology, Perth, West Australia.
- Cole, M. 1995: *Stagonospora meliloti* and *Acrocalymma medicaginis*, fungi causing red-crown rot in lucerne, *Medicago sativa*, Proceedings of the 10th Biennial Conference of Australasian Plant Pathology, Christchurch, New Zealand pp not available.
- Cole, M. 1993: Biological control of *Botrytis* in grapes'. Workshop, Nagambie, Victoria, Nov 30 - Dec 1.p 6.
- Horsnell, J., Cole, M & Kaehne, I. 1993: '*Neocosmospora vasinfecta*, a crown-rot fungus in lucerne, *Medicago sativa*.' Proceedings of the 9th Biennial Conference of Australasian Plant Pathology, Hobart, Tasmania p not available.
- Goodish, D., Godish, T., Hooper, B., Panter, C., Cole, M., Hooper, M. 1993: Airborne mould and bacterial levels in selected houses in the LaTrobe Valley, Victoria. Proceedings of the 6th International Conference for Indoor Air Quality and Climate, Helsinki, Norway. pp not known.
- Horsnell, J., Cole, M & Kaehne, I. 1993: '*Neocosmospora vasinfecta*, a crown-rot fungus in lucerne, *Medicago sativa*'. Proceedings of the 6th International Congress of Plant Pathology, Montreal, Canada pp not available.
- Cole, M & Beardall, J. 1993: Red-crown rot in lucerne, *Medicago sativa*, L. Proceedings of the 6th International Congress of Plant Pathology, Montreal, Canada pp not available.
- Cole, M & Beardall, J 1993: Red-crown rot in lucerne, *Medicago sativa*, L. Proceedings of the 9th Biennial Conference of Australasian Plant Pathology, Hobart, Tasmania.

Student supervision:

PhDs:

- 2016-current** Jose Valentin Palacios Zevallos,. PhD candidate, University of Melbourne, Faculty of Veterinary & Agricultural Sciences, Parkville campus. Principal Supervisor Professor Jim He. Co-supervisor Dr Mary Cole (20%). Project title: Control of Anthracnose in lettuce using secondary metabolites from *Trichoderma* species – fungi.
- 2003-2007: Radika Iyer, PhD candidate: 'Grape vine disease severity and incidence of *Botrytis cinerea* with respect to nutritional alteration.' Principal Supervisor (75%) Monash University, 20% Professor Daryl Joyce, University of Queensland, Gatton and 5% Dr. Rob Holmes, Department of Primary Industry, Knoxfield. GWRDC Grant and Monash PhD Scholarship.
- 2003- 2005: Steve Martin, PhD candidate: 'Sources of seasonal variation in grape vine yield.' Co-supervisor (10%) between Melbourne University and Monash University.
- 2000-2003: Eve Cottrall, PhD. 'The study of the trunk rotting pathogen, *Phaeoacremonium chlamydosporum*'. Associate-supervision (20%) with Dr. Peter Taylor, The Univ of Melbourne. CRCV Funded PhD. Eve died from cancer aged 23 in 2003.
- 2000-2003: Richard Lardner, PhD. 'Early diagnosis and detection of *Eutypa* dieback of grapevines.' Co-Supervision (25%) with Dr Eileen Scott, Univ of Adelaide. CRCV funded PhD. Richard now has a Post-doc position with Dr Scott funded by GWRDC.
- 1998-2000: T. Wiechel, PhD: 'Gene expression of blackleg in canola' Co-Supervisor (20%) Charles Sturt University, Wagga Wagga.
- 1974-1978: R. J. Sward, PhD. 'Studies in vesicular-arbuscula mycorrhizas'. Associate supervisor (20%) Monash University, Clayton.

Masters:

- 1993-1994: R. Barker, MSc Monash University, Clayton, 'Taxonomy of the vegetable caterpillar fungus, *Cordiceps*'. Associate supervisor (80%)
- 2004: Liam Robinson, B.Sc. 'The role of native mycorrhizae in the vineyard', (50%) Dept. of Geography (Clayton campus) & Wine, Food & Agribusiness, Monash Peninsula campus.
- 2002: Bronwyn Douglas, B Bus (Intern Trade) 'Australian wine marketing into China' (80%) Monash University, Peninsula

Honours:

- 1997: G. Hoffmann, BSc (Honours), 'Effect of trellising on 1-year-old grape vines.' (100%) Charles Sturt University, Wagga Wagga.
- 1993: J. Avram, BSc (Honours), 'Seasonal distribution of *Botrytis cinerea* spores in Riesling grapes in Whitlands'. (100%) Monash University, Clayton.
- 1990: I. Shaw, BSc (Honours), 'Leaf-tip die-back of orchids.' (100%) Monash University, Clayton.

International collaborative links:

- 1998 - 2004: Dr Gustav Holz, Stellenbosch University, South Africa. 'Investigation of the infection process of *Botrytis cinerea*'.
- 1997 - 2000: Drs Olivier Viret and Roger Pezet, Swiss federal Research Station, Chagnin, Switzerland. 'Investigation of the role of endogenous and exogenous cutinase compounds in the infection process of *Botrytis cinerea*'.

- 1997 - 2005: Dr Franco Faretra, University of Bari, Italy. 'Development of the sexual stage of *Botrytis cinerea* in pure culture using known mating strains.'
- 1993 – 2001: Dr Bernadette Dubos, Bordeaux Institute of Vine Research, Villenave, France. Strain variation between Australian and French isolates of *Botrytis cinerea* and *Eutypa lata*.
- 1992 – 1998: Dr Cecile van Bergen-Vlugg, Agricultural University, Wageningen, The Netherlands. Investigation of the role of the sexual stage in field variation seen in *Botrytis cinerea*.

Conference organisation:

- 2005: Conference President and Convenor of Conference. 15th Biennial Congress of Australasian Plant Pathology, Geelong, Victoria 2005. Theme for conference: 'Innovations in Plant Pathology'
- 2004: Workshop Convenor and Chairperson. Wine Technical Conference, Melbourne, August. 'Botrytis and other bunch rots'.
- 2004: Member of International Referee & Advisory Scientific Committee: XIII International Botrytis Symposium, Antalya, Italy 25-31 October, 2004.
- 2003: Workshop Committee Convenor/ Chairperson. 8th International Congress of Plant Pathology, Christchurch. International workshop on *Botrytis cinerea*.
- 2002-2003: Member: Mornington Peninsula Biosphere Committee.
- 2002: Member: Mornington Peninsula Environmental Development Group.
- 2001: Workshop Convenor. Wine Technical Conference, Adelaide. 'Management of *Botrytis cinerea* in Australian vineyards'.
- 2000: Team member of CRCV to develop AUSVIT.
- 2000: Member: GRWDC Pest and Disease Management Project Review.
- 2000: Member: National committee CRC for Viticulture called Viticulture 2000.
- 2000: Foundation member: Australian Fungal Poisoning Network
- 2000: Member: National committee to determine future developments in disease management for the Australian Vine Improvement Association.
- 2000-2001: Independent expert: AQIS Risk Assessment Panel (AQIS RAP) for import of wild & edible mushrooms into Australia.
- 1999-2002: Member & contributor: Education group within the Australasian Plant Pathology Society.
- 1999: Workshop Convenor. 12th Biennial Conference of the Australasian Society of Plant Pathology, Canberra. '*Botrytis cinerea*'.
- 1998-2002: Project team Leader: CRCV 2.

Talks: Invited speaker:

- 2017: March: Full day Biologic Seminar for Turf management, Yarra Yarra Golf Club, 567 Warragul Road, East Bentleigh
- 2016: October: Soil health on Australian Golf Courses. GMV mini-conference & AGM at The Eastern Golf Club, Yering, Yarra Valley, Victoria. Guest speaker.
- 2016: October – 2 talks over two days: "Gardening without chemicals" & Soil Health" Garden & Home Expo, Lardner Park, Warragul, Victoria..

- 2015: Farming for the Future, Bendigo Bank Agricultural Information Forum, Bunyip, Victoria.
- 2015: The importance of Fungi in Carbon management, Victorian Organic Farmers ass, Inc. Agpath Laboratory, Garfield, Victoria.
- 2015: The importance of Fungi in Carbon Management, Latrobe Valley Field Naturalists Club, Newborough, Victoria.
- 2015: The importance of Fungi in Carbon Management, Pakenham Garden Club, Pakenham, Victoria.
- 2015: Impact of Fire on soil ecology, Fire Ecology Forum, Yarra Ranges Council, Lilydale.
- 2014: Westernport Biosphere Growing Connections Project, Diversity, Sustainability & health. Cardinia cultural Centre, Pakenham, Victoria.
- 2014: My personal journey to a sustainable future, Cardinia Shire International Women's day lunch, Cardinia Cultural Centre, Pakenham, Victoria.
- 2013: Mushrooms: Myths & Legends, Friday Group, Tynong, Victoria.
- 2013: Building a career in science, Networking Event, Gippsland campus of Monash University, Churchill, Victoria.
- 2013: Mushrooms: Myths & Legends, Gippsland Women on Farms, Tynong, Victoria.
- 2013: Fungi: the good, the bag and the ugly! Friends of sassafras Creek, Monbulk, Victoria.
- 2012: Inaugural Soils Conference, Biology on Soils. Warrnambool, Victoria.
- 2012: The dirt on food: healthy soils, Growers & Eaters Conference, Bendigo, Victoria.
- 2012: Good soils – great food, The science of Food Symposium, Knowledge Week, Melbourne.
- 2012: Understanding the soil food web & interpreting soil food web analysis reports, Lismore Land Protection Group, Lismore, Victoria.
- 2012: Mushrooms – edible or not! Launch of Bendigo Community Bank, Bunyip, Victoria.
- 2012: Benefits of Seasol to soils. Sponsored by Seasol P/L, Adelaide, South Australia.
- 2012: NECMA - 2 day workshop, Oxley, NE Victoria. 'Soil Biology and Botrytis forum', Presented as part of North East CMA's Soil Carbon Programme.
- 2012: Milawa Organic Group – ½ day microscope workshop looking at components of compost and compost tea.
- 2012: Soil Food Web Interactions & Plant production. 2 week course with Dr Elaine Ingham & Dr Mary Cole., University of Melbourne, Dookie campus.
- 2012: Baw Baw Permaculture Group – Identification and eating wild mushrooms.
- 2012: Tynong North Friday Group - Identification and eating wild mushrooms.
- 2012: Slow Food Melbourne – Growers & Eaters Forum – Soil Health.
- 2012: Evolution of Soils. Port Phillip & Western Port CMA, Main Ridge Community Hall, Main Ridge, Victoria.
- 2012: Use of microscopes interpreting biota in compost & compost teas. North East CMA, Milawa, Victoria.
- 2011: SFI compost/compost tea workshops (3 days) in Yarra Valley.
- 2011: Grape & Wine Research & Development Corporation Vine Health Field Day, Griffith.
- 2011: Grape & Wine Research & Development Corporation Vine Health Field Day, Tumbarumba
- 2011: Soil Food Web Interactions & Plant production. 2 week course with Dr Elaine Ingham & Dr Mary Cole., University of Melbourne, Dookie campus.
- 2010: Grape & Wine Research & Development Corporation Vine Health Field Day, Shoalhaven
- 2010: Viticultural Society of the Southern Tablelands (ACT & NSW) Botrytis management – alternative options. Murrumbateman, ACT.
- 2010: Viticultural Society of the Southern Tablelands (ACT & NSW) Good soils – fine wines. Murrumbateman, ACT.
- 2010: Grape & Wine Research & Development Corporation Vine Health Field Day, Canberra
- 2010: Southern Gippsland Wines Inc (SGWI) Technical Forum, Soils and fine wines. Djinta Djinta Winery, Gippsland, Victoria.
- 2010: Final report presentation of: Healthy Soil, Stock & Pasture Project, Results paper, sponsored by Cardinia Environment Coalition, Garfield Golf Club.

- 2010: Tackling Soil Acidification & improving soil health in vineyards, funded by Caring for Country – DPI Vic & VHA, Blue Gable Vineyard, Upper Maffra West, Victoria.
- 2010: 2 week course – Soil Food Web with Dr Elaine Ingham, University of Melbourne, Dookie campus.
- 2010: Grape day – Stop the Rot – Key note Speaker, New Zealand Wine Industry, Hawkes Bay, North Island.
- 2010: Grape day – Stop the Rot – Key note Speaker, New Zealand Wine Industry, Marlborough, South Island.
- 2007: October: 6000 years of parallel history. Anglican Church annual dinner.
- 2007: August: Identification of fungi and their edibility. Billabong Club, Holbrook, NSW.
- 2007: July: 6000 years of parallel history. Garfield Probis Club.
- 2007: June: 6000 years of parallel history. Garfield Rotary Club.
- 2007: May: Botrytis and wine. Garfield garden club
- 2007: May: Identification of mushrooms and their edibility. French Island Field naturalists Group.
- 2006: September: Mushrooms, myths and legends. Warragul Garden Club.
- 2006: May: Mycorrhizae and Environmental Health. Australian Plant Society, West Gippsland Branch, Warragul.
- 2006: May: The Importance of Fungi in our Environment. Bairnsdale Field Naturalists Society.
- 2005: March: Quality of Soil. Gippsland Vegetable growers association, Cranbourne.
- 2004: June: Botrytis best Practice Protocols. IHD Knoxfield. Victorian Grape growers.
- 2004: June: Botrytis best Practice Protocols. Beechworth. Northern regions grape growers.
- 2004: July: Botrytis best Practice Protocols. Mount Macedon. Macedon and district grape growers association.
- 2004: July: Botrytis best Practice Protocols. Ballarat and district grape growers association.
- 2003: December: Microbes and bacteria and grapevines. University of Adelaide, Waite Campus, GWRDC meeting.
- 2003: December: Terroir and its influence on cool climate wine styles. Singapore Wine society.
- 2003: November: Botrytis Management. Mornington Peninsula Growers Seminar Mornington Lodge.
- 2003: October: Botrytis and other bunch rots. Monash Seminar series. Peninsula campus.
- 2003: October: Life as a Scientist. Monash University Peninsula. Senior Women's Association
- 2003: September: Bunch rots. Northern Tasmanian Grapegrowers Association, Launceston, Tasmania.
- 2003: September: Other Bunch Rots. Southern Tasmanian Grapegrowers Association, Hobart.
- 2003: September: CRCV Year 5, Programme 2. Waite Institute, Adelaide.
- 2003: September: Hot water treatment of grapevines. Griffith and Wagga, New South Wales MIA Nursery Associations.
- 2002: October: Projects related to supply chain management and innovation uptake. Cape Town, South Africa. General Assembly of Great Wine Capitals Education Forum.
- 2002: August: Latest research in Botrytis – grey mould in grapes. Grape Check workshop, Myrtleford, King and Ovens Valley Grapegrower Associations.
- 2002: August: Botrytis and other Bunch Rots. Technical Working Group of Tumbarumba Grapegrowers Association, Tumbarumba.
- 2002: July: Management of Botrytis and other bunch rots. Yalumba Agri-Link Growers Technical Committee Workshop. Barossa Valley, South Australia
- 2002: June: Mushrooms – poisonous or safe? Field Naturalists Association, Moe, Victoria.

- 2002: June: Botrytis and Botrytis management. CRCV Symposium Mildura Industry Reference Group Mildura, Victoria.
- 2002: June: Botrytis and Botrytis management. King Valley Vignerons Association, Milawa, Victoria.
- 2002: June: Botrytis and Botrytis management. Alpine Growers Association, Myrtleford, Victoria.
- 2002: June: Botrytis and other bunch rots. Alpine and King Valley Vignerons Association.
- 2002: June: Botrytis workshop. Northeastern region grape growers, Wangaratta.
- 2002: June: Botrytis workshop. Alpine region grape growers, Myrtleford.
- 2002: May: Botrytis and other bunch rots Workshop. Mornington Peninsula Vignerons Association.

Public relations roles:

- 2013-2016: Expert Witness in Supreme Courts cases for NSW and Victorian Supreme Courts.
- 1999-2003: Monash University Peninsula campus Director's Advisory Committee, representing wine technology & marketing to:
 - a) Co-sponsor Red Hill Cool Climate Wine Show
 - b) Establish Monash in wine particularly on Mornington Peninsula.
- 2002-2003: Elected member of Faculty OSP Committee; Assess applicant's submissions for OSP; was asked to assist one academic to improve his application. He subsequently was successful in his application.
- 2002-2003: Dean's nomination on Faculty of Bus & Eco Assoc Prof/Prof Promotion Com. Assess applicant's submission for promotion. Quality applications went through to successful promotions
- 2003: Research day for Peninsula campus. Present the work of Wine Technology & Marketing and the WP & MP BR to the group representing all schools and departments on the campus. Expressions of interest for collaborative research with other schools/centres on campus. Establish research links and offer funding opportunities.
- 2003: Research day for faculty. Present methods of successfully gaining research grants from outside granting bodies. Assisted younger academics with less research experience to write grants that can stand up to granting bodies critique.
- 2002: Monash University Peninsula campus Grounds Committee, assisted in developing the Peninsula campus grounds; Peninsula campus is part of the Western Port & Mornington Peninsula Biosphere Reserve & as such will participate in research and conservation, and represent indigenous flora on campus.
- 2001-2002: Chairperson of Wine technology & Marketing Industry Advisory Board. Engage industry members in the development of the masters course so that it was relevant to the industry. Developed a masters course that is recognised nationally and internationally as the most industry relevant course of its kind in Australia.

Committees/projects

Exhibitor. 2003,2004: Exhibition of Victorian Winemakers course advertising booth. In 2003, generated 50—70 requests for further information and translated into 7 new enrolments.

Member. 2003-2004: Victorian State Government Education Committee reviewing potential tertiary degree programme for another tertiary institution.

Participant. 1998 –1999 summer - in the CRCV summer scholarship scheme and supervised a student through to a successful completion of a project

Participant: 1998-1999 - in the CSIRO Double Helix programme and supervised two year 11 and 12 high school students to a successful completion of a project.

Participant: 2001 & 2003 – Monash mentoring scheme for new staff. I mentored 2 young women academics. I learnt a great deal from the experience and they have remained friends. I continued to assist the 2nd lecturer with her written English for her unit design, etc.

Media activities:

2017: “Soil Biology key to your pastures”, Pakenham Gazette, 19th April, 2017. p39

2017: “ Making the desert grow”. Garfield News Letter, April 2017. p

2017: “Garfield Laboratory host International Engineer.”. Warragul gazette, March 14th, 2017 p 18. Visiting Egyptian scientist from SEKEM organisation. www.sekem.com

2017: ‘Fresh Life in desert’, Pakenham Gazette Rural matters, March 8th 2017 p 37. Visiting Egyptian scientist from SEKEM organisation. www.sekem.com

2016: “New Life From Ashes” Grow Business Magazine for Casey/Cardinia Shires, Issue 5, December 2016.

2016: Local Newspapers: mushrooms poisonings articles and interviews.

2016: During May: a) interviews with ABC, Victoria, NSW, WA, on cremated ash project for Living legacy Forest P/L;

b) interview with London Times re Living Legacy Forest cremated ash project.

3) Channel 10 – The Project – interviews Living Legacy Forest P/L cremated ash project

2000: Interviewed on camera for production of a commercial video on the history and use of psycho- reactive mushrooms

1998: Scientific consultant to an episode of the television series, The State Coroner, produced by Crawford Studios, Melbourne.

1995-2006: Feature Writer for the Victorian Viticulture News, an industry newspaper that goes to all grape growers presenting latest research information on different aspects of the grape growing industry. This provides a rapid transfer of technology from the researcher to the beneficiary, the grape grower.

1995-2006: Invited Radio Speaker, mostly ABC national and regional, on viticulture diseases, viticulture disease management and on mushroom poisonings.

1995-current: Interviews with television Ch 7, 9 and ABC national and regional stations on mushroom poisonings, etc.

Consulting projects

- 1) 1992-current: Honorary Consultant to the Victorian Poisons Information Centre, Royal Childrens' Hospital, Melbourne.
 - Training for hospital medical staff--recognition of the toxic fungi species
 - Training for Poisons Information Centre in the recognition of the toxic fungi species.
 - Education of interested general public and student groups at forum presentations.
- 2) 1991-1992: Alpine Resorts Commission
 - Carried out environmental impact studies on the influence of artificial snow on the natural environment.
- 3) 1990-present: Consultant to Brown Bros, Milawa Vineyard P/L.
 - consult when needed on disease management
- 4) 1990-current: Environmental mycology and microbiology. Consulchem P/L, Melbourne.
 - Carry out microbiological identifications.

Other endeavours

2017: January to April 1st – 137 requests for mushroom identifications by email or text pictures..