Dr Allison Knight Curriculum Vitae

PART 1

1a. Personal details				
Full name	*Title* Dr	*First name* Allison	*Second name(s)* -	*Family name* Knight
Present position	Research Associate. Lichenologist; Honorary curator, lichen collection, Otago Regional Herbarium (OTA).			
Organisation/Employer	Department of Botany, University of Otago			
Contact Address	28 Embo St			
	Kew			
	Dunedin		**Post code**	9012
Work telephone		**Mobile**	027 487 8265	
Email	allison.knight.nz@gmail.com			

1b. Academic qualifications

1978 PhD, Biomedical Research, Department of Medicine, University of Otago

1971 BSc Hons (first class), Zoology, University of Otago

1c. Professional positions held

2015–on	Herbarium Committee, Otago Regional Herbarium
2005–on	Research Associate. Lichenologist, Department of Botany, University of Otago. Lichen advisor to Botany Department.
2000–on	Honorary Curator, Lichens, Otago Regional Herbarium
2008–10	Contract Lichenologist, Department of Conservation LUCAS monitoring
2005–07	Contract Lichenologist, Landcare, Carbon Monitoring Scheme
1997-99	Research Fellow, Laboratory of Molecular Microbiology, Department of Oral Sciences, School of Dentistry, University of Otago
1996–97	Research Assistant, Molecular Biology Unit, Retinitis Pigmentosa Research Group, Department of Biochemistry, University of Otago
1994–96	Research Fellow, Nephrology, Department of Medicine, University of Otago
1993	Research Fellow, Department of Experimental Medicine, University of Otago
1988–92	Research Fellow, Department of Psychological Medicine, University of Otago
1985–87	Guest Researcher, Laboratory of Developmental and Molecular Immunity, National Institutes of Health, Bethesda, USA.
1979	Guest Researcher, Tumour Immunology Unit, University College, London
1975–85.	Scientific Officer, MRC Autoimmunity Research Unit, School of Medicine, University of Otago.

1d. Present research/professional speciality

Lichenology

1e. Total years research experience	44 years

1f. Professional distinctions and memberships (including honours, prizes, scholarships, boards or governance roles, etc)

2017–on	Review panel, Herzogia
2017–on	Editorial panel, Australasian Lichenology
2016–on	Member of the New Zealand plant threat listing panel (lichens)

2016–on	Taxonomic consultant, Lichen Metagenomics Research Group, Victoria University
2014–on	Member and lichen contributor, NZ Plant Conservation Network
2014–on	Expert lichen identifier, NatureWatch
2009–on	Member, New Zealand Lichen Conservation Status threat-listing panel
2007–on	Member, British Lichen Society
1998–on	Member, International Association of Lichenology
2009–12	Grant, Terrestrial and Freshwater Biodiversity Information Systems
1988	Grant 88/178, Medical Research Council of New Zealand
1986–7	Grant, Guest Researcher, National Institutes of Health, USA.
1975	Golden Kiwi Grant IA 20/12379
1972–4	Post Graduate Scholarship, University of Otago Grants Committee

1g. Total number of *peer reviewed* publications and patents	Journal articles	Books, book chapters, books edited	Conference proceedings	Patents
	40	3	7	-

PART 2

2a. Research publications and dissemination

Relevant Peer-reviewed journal articles

de Lange PJ, Blanchon DJ, **Knight A**, Frogley K, Harris A, Rolfe JR. Conservation status of New Zealand lichens. (In preparation)

Bibiana Moncada B, de Lange P, Ranft H, **Knight A**, Blanchon D, Lücking R, Lumbsch HT. *Pseudocyphellaria crocata* (Ascomycota: Lobariaceae) in New Zealand: phylogenetic revision reveals eight species and absence of *P. crocata* s.str. (In preparation)

Calcott MJ, Ackerley DF, **Knight A**, Keyzers RA and Owen JG. Secondary metabolism in the lichen symbiosis. Chemical Society Reviews

DOI: 10.1039/C7CS00431A (Impact Factor 38.6)

Lord J, Mark A, Maegli T, Halloy S, Bannister P, **Knight A**, Dickinson K. 2018. Response of alpine vegetation to altered snow regimes in Otago, New Zealand. Special issue on Alpine and arctic plant communities : a worldwide perspective.

Perspectives in Plant Ecology, Evolution and Systematics 30: 51-61

Elix, JA; **Knight, A**. 2017. Three new species of buellioid lichens (Caliciaceae, Ascomy cota) from Otago, South Island, New Zealand Australasian Lichenology 81: 86-92

Elix JA, **Knight A**, Blanchon D 2017. New species and new records of buellioid lichens (Physciaceae, Ascomycota) from New Zealand. Australasian Lichenology 80: 46 – 52.

Lücking R, Nelsen M, Aptroot A, Barillas de klee M, Bawingan P, Benatti M, Binh N, Bungartz F, Cáceres M, Canêz L, Chaves J-L, Ertz D, Esquivel R, Ferraro L, Grijalva, A, Gueidan C, Hernández J, **Knight A**, Lumbsch H, Marcelli M, Mercado-Díaz J, Moncada B, Morales E, Naksuwankul K, Orozco T, Parnmen S, Rivas Plata E,Salazar-Allen N, Spielmann A, and Ventura N. 2016. A phylogenetic framework for reassessing generic concepts and species delimitation in the lichenized family Trypetheliaceae (Ascomycota: Dothideomycetes). The Lichenologist 48(6): 739–762

Elix JA, Malcolm WM, **Knight A** 2015. New records and new combinations of buellioid lichens (Physciaceae, Ascomycota) from New Zealand. Australasian

Lichenology 77: 36–41

Nelsen, MP; Lücking, R; Aptroot, A; Andrew, CJ; Cáceres, M; Rivas Plata, CG; da Siiva Canêz, L; **Knight, A**; Ludwig, LR; Merceda-Díaz, J; Parnmen, S; Lumbsch, HT. 2014. Elucidating phylogenetic relationships and genus-level classification within the fungal family Trypetheliaceae (Ascomycota: Dothidiomycetes). Taxon 63: 974-992

Lord JM, **Knight A**, Bannister JM, Ludwig LR, Malcolm WA, Orlovich DA 2013. Rediscovery of pycnidia in *Thamnolia vermicularis*: Implications for chemotype occurrence and distribution. Lichenologist 45(3): 397-411

de Lange PJ, Galloway DJ, Blanchon DJ, **Knight A**, Rolfe JR, Crowcroft GM, Hitchmough R 2012. Conservation status of New Zealand lichens. New Zealand Journal of Botany 50, (3), 303-363

Fryday AM, **Knight A** 2012. A new species of *Megalaria* (Ramalinaceae, lichenized Ascomycota) from South Island, New Zealand. Australasian Lichenology 70, 26 – 29

Knight A, Elix JA, Archer AW 2011. A new species of *Pertusaria* (lichenized Ascomycota, Pertusariaceae) from New Zealand. Australasian Lichenology 69: 33-35.

Bannister P, Maegli T, Dickinson KJM, Halloy SRP, **Knight A**, Lord JM, Mark AF, Spencer KL 2005. Will loss of snow cover during climatic warming expose New Zealand alpine plants to increased frost damage?. Oecologia 144, 245-256.

Monk BC, Niimi K, Lin S, **Knight A**, Kardos TB, Cannon RD, Parshot R, King A, Lun D, Harding DRK 2005. Surface-active fungicidal D-peptide inhibitors of the plasma membrane proton pump that block azole resistance. Antimicrobial Agents And Chemotherapy 49, 57-70.

Galloway DJ, **Knight A**, Johnson PN, Hayward BW 1999. Additional lichen records from New Zealand 30. *Polycoccum galligenum* new to New Zealand and the Southern Hemisphere. Australasian Lichenology 45: 8-9.

Galloway D, **Knight A** 1999: *Leptogium australe* (Collemataceae), new to New Zealand. Lichenologist 31(6): 642–646

Maw MA, Kennedy B, **Knight A**, Bridges R, Roth KE, Mani EJ, Mukkadan JK, Nancarrow D, Crabb JW, Denton MJ 1997. Mutation of the gene encoding cellular retinaldehyde-binding protein in autosomal recessive retinitis pigmentosa. Nature Genetics 17, 198–200.

Knight JG, **Knight A** 1984. Multiple-organ autoimmunity. Nature 308, 318–318.

Plus 19 other Biomedical research papers 1973–1996 (appended below)

Peer reviewed books, book chapters, books edited

Knight A. 2014. *Lichens of New Zealand: an introductory illustrated guide*. Dunedin: Alison Knight. 55 pp. Also on Botanical Society of Otago and NZPCN websites.

Knight A, Ludwig L 2014. *Lichens*. In *Beginners Guide to Mosses, Liverworts and Lichens.*

Malcolm B, Malcolm N, **Knight A** 2010. *New Zealand's Foliose Lichens: An Illustrated Key*. Micro Optics Press. Also on NZPCN website.

Refereed conference proceedings

Calcott M, Ackerly D, **Knight A**, Owens J. 2018. A metagenomic survey of natural products in New Zealand lichens. 'Natural Products and Synthetic Biology: Parts and Pathways' Olympic Valley, California, USA.

Ludwig L, Summerfield T, Burritt D, Lord J, **Knight A**, Singh G, Kantvilas G 2016. the reproductive ecology of *Icmadophila splachnirima*. 8th International Association of Lichenology Syposium, Helsinki: Lichens in Deep time, 138

Moncada B, Ranft H, de Lange PJ, Blanchon D, **Knight A**, Lumbsch H, Lücking R 2016. The lichen family Lobariaceae in New Zealand: Assessing traditional species concepts using the ITS barcoding locus. 8th International Association of Lichenology Syposium, Helsinki: Lichens in Deep time, 152

Ludwig L, **Knight A**, Kantivilas G 2016. Discovery of ascomata in the *Siphula decumbens* group, and its placement in a separate genus. 8th International Association of Lichenology Syposium, Helsinki: Lichens in Deep time, 168

Lord J, Dickinson K, Halloy S, **Knight A**, Maegli T, Mark A 2013. Response of alpine vegeatation to altered snow regimes in Otago, New Zealand. Southern Connections, Dunedin. Conference paper, PDF available.

Other forms of dissemination (reports for clients, technical reports, popular press, etc)

Variously organising workshops on lichen identification, writing reports and articles, taking field trips, compilng species lists, giving talks, newspaper and television interviews and posting information online for:

2016–on. Lichen Metagenomics Research Group, Victoria University
2014–on. NatureWatch and New Zealand Plant Conservation Network
2002–on Department of Botany, Otago University
2000–on Botanical Society of Otago
2000–on Wellington Botanical Society summer camps
2003–on annual National John Child Bryophyte and Lichen Workshops
2016 Harbour Cone BioBlitz
2016 International Science Festival “Our Living World” public event
2014 Dunedin Botanic Garden Bioblitz
2014 Nina Valley EcoBlitz
2011The microscopic world of lichens, NZ Geographic 109: 90 – 103
2010, 14 Orokonui Ecosanctuary, workshop, book launch and lichen walk
2009 Department of Botany Summer School, University of Otago
2002, 09 Fungal Network of NZ national forays

Bird SD, Knight A, Legge M, Walker RJ 1996. L-cysteine improves growth of human peritoneal mesothelial cells (HPMC) in vitro. Kidney International 50, 1411-1411.
Knight J, Knight A, Ungvari G 1992. Can autoimmune mechanisms account for the genetic predisposition to schizophrenia. British Journal Of Psychiatry 160, 533-540.
Knight JG, Knight A, Menkes DB, Mullen PE 1990. Autoantibodies against brain septal region antigens specific to unmedicated schizophrenia. Biological Psychiatry 28, 467-474.
Knight JG, Knight A, Menkes DB, Mullen PE 1990. Antiseptal autoantibodies in schizophrenia. Biological Psychiatry 27, 681-681.
Knight A, Adams DD, Rich SS, Barbosa J 1988. Genetic evidence favoring cyto-toxic t-cell forbidden clones as the cause of insulin-dependent diabetes mellitus. Diabetes Research Clinical And Experimental 9, 1-4.
Knight JG, Knight A 1986. Genetics of endocrine autoimmunity - animal models. Mount Sinai Journal Of Medicine 53, 19-22.
Knight J, Laing P, Knight A, Adams D, Ling N 1986. Thyroid-stimulating autoantibodies usually contain only lambda-light chains - evidence for the forbidden clone theory. Journal Of Clinical Endocrinology And Metabolism 62, 342-347.
Knight J, Laing P, Knight A, Adams D 1984. Forbidden clones. Immunology Today 5, 336-336.
Knight A, Knight J, Laing P, Adams D 1984. Coexisting thyroid and gastric autoimmune-diseases are not due to cross-reactive autoantibodies. Journal Of Clinical & Laboratory Immunology 14, 141-144.
Knight JG, Laing P, Knight A, Adams DD, Bray JJ, Ling NR 1984. Evidence for the forbidden clone theory of autoimmunity. Proceedings Of The University Of Otago Medical School 62, 39-40.
Knight JG, Knight A 1984. Multiple-organ autoimmunity. Nature 308, 318-318.
Knight A, Adams DD 1983. Absence of allotypic variation in the auto-antigen for thyroid stimulating autoantibodies. Clinical And Experimental Immunology 52, 317-324.
Manley SWW, Knight A, Adams DD 1982. The thyrotropin receptor. Springer Seminars In Immunopathology 5, 413-431.
Knight A, Smith J, Adams DD, Hunn M, Beulink R, Hunter J 1982. Swift thyroid reaction to iodine deprivation in mice. Proceedings Of The University Of Otago Medical School 60, 69-71.
Knight A, Adams DD. 1980. Autoantibodies with intrinsic biological activity. Hormone Research 13, 69-80.
Knight A 1975. Reactions between thyroid-stimulating autoantibodies and thyroid cell antigens. New Zealand Medical Journal 81, 489-489.
Knight A, McGregor DD 1974. Development of vascular reactivity in chickens - responses of mesenteric and hind-limb blood-vessels to norepinephrine and acetylcholine. Blood Vessels 11, 212-228.
McGregor DD, Knight A 1974. Vascular-responses to noradrenaline in newly-hatched chickens. New Zealand Medical Journal 80, 121-121.
Knight A, Adams DD 1973. Infusion of LATS protector and LATS into monkeys. Proceedings Of The University Of Otago Medical School 51, 11-13.