

CURRICULUM VITAE

PROFESSOR A.H. BITTLES

CENTRE FOR HUMAN GENETICS

EDITH COWAN UNIVERSITY

PERTH

AUSTRALIA

Personal data

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(Home) 48 Oban Road,
City Beach,
Perth, WA 6015
Australia

Place of birth: Belfast, Northern Ireland

Nationality: British and Australian

Date of birth: 19th February, 1943

Marital status: Married

Education and qualifications

1954-1960	The Methodist College, Belfast
1960-1965	College of Technology, Belfast
1965	Associateship of the Institute of Biomedical Science in Chemical Pathology, with Distinction
1967	Fellowship of the Institute of Biomedical Science, by Thesis
1966-1970	Trinity College, University of Dublin
1970	BA (Moderatorship), Second class, First Division Honours in Natural Sciences
1976	MA
1970-1973	The Queen's University, Belfast
1973	PhD awarded by the Faculty of Medicine
1971	Membership of the Institute of Biology (MInstBiol)
1987	Fellowship of the Institute of Biology (FInstBiol)
1993	Membership of the Royal College of Pathologists (MRCPATH)
1994	ScD awarded by Trinity College, University of Dublin
1996	Fellowship of the Royal College of Pathologists (FRCPath)

Fellowships and prizes

1965	Bridge in Britain Scholarship to Israel
1977	British Council/Indian U.G.C. Younger Scientists Award
1981	Royal Society/Nuffield Foundation Commonwealth Bursary
1981-1982	Royal Society/Indian National Science Academy Research Fellowship

1984	University of London Institute of Commonwealth Studies: Australian Studies Visiting Fellowship
1989-1990	Fulbright Senior Scholar Award
1990	European Union, Lauréat ERASMUS
1991	Royal Society/USSR Academy of Sciences Study Visit Award
1998	By-Fellow, Churchill College, University of Cambridge Visiting Senior Research Associate, Morrison Institute for Population and Resource Studies, Stanford University
1999	Walker-Ames Professor, School of International Studies, University of Washington
2004	Guest Professor, Peking University Medical Center, Shenzhen
2004-2005	Visiting Researcher, Department of Population Studies, Umeå University

Employment

1960-1966	Senior Medical Laboratory Scientist Clinical Biochemistry Department, Royal Victoria Hospital, Belfast
1970-1973	Medical Research Council Associate Department of Child Health, The Queen's University, Belfast
1973-1974	Principal Scientific Officer Clinical Bacteriology Department, Royal Victoria Hospital, Belfast
1974-1985	Lecturer Department of Human Biology, Basic Medical Sciences Group, Chelsea College, University of London
1985-1989	Senior Lecturer Department of Anatomy and Human Biology, King's College, University of London
1989-1993	Reader in Human Biology Biomedical Sciences Division, King's College, University of London
1989-1990	Fulbright Senior Research Fellow Population Studies Center, University of Michigan
From 1993	Foundation Professor of Human Biology and Director, University Centre for Human Genetics Edith Cowan University, Perth

Membership of learned societies

From	1974	Society for the Study of Human Biology
	1982	Biochemical Society
	1984	International Association of Human Biologists European Anthropological Association
	1985	Human Biology Association
	1991	American Association for the Advancement of Science Population Association of America
	1992	Society for the Study of Social Biology
	1993	Australasian Society for Human Biology International Union of Anthropological and Ethnological Sciences Royal College of Pathologists
	1994	Clinical Genetics Society Human Genetics Society of Australasia American Anthropological Genetics Association
	1996	British Society for Human Genetics
	2004	International Union for the Scientific Study of Population

Offices held in learned societies

		Society for the Study of Human Biology
	1979 to 1985	Member of the General Committee
	1988 to 1992	
	1980 to 1985	Programme Secretary
	1991 to 1992	General Secretary
		Galton Institute
	1980 to 1989	Member of Council
	1990 to 1994	
	1983 to 1989	Member of Finance Committee
	1984 to 1989	Member of Research Committee
	1990 to 1993	
		Biosocial Society
	1983 to 1984	Member of General Committee
		Australasian Society for Human Biology
	1994	Vice President
	1995 to 1997	President
		Human Genetics Society of Australasia
	1996 to 1998	Member of National Conference Planning Committee
	From 2001	Member of Ethics and Social Issues Committee
	From 1996	Member of State Committee, Western Australia

Service on international organizations

	From 1988	International Association of Human Biologists Member of Council
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1991 to 1994	International Union of Anthropological and Ethnological Sciences, Commission on Aging and the Aged Executive Secretary Chair
1994 to 1998	
1996 to 1998	European Anthropological Association Member of Council
2000 to 2004	
From 2001	International Union of Biological Sciences Member of the Executive Committee

Journal editorship

1998 to 2003	Co-editor, <i>Annals of Human Biology</i>
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University Administrative duties

University of London, 1974-1993

1977-1993	Member and Examiner of the Board of Studies in Biochemistry
1978-1993	Member, Examiner and Chair of the Board of Studies in Genetics
1985-1993	Member and Higher Degrees Examiner of the Board of Studies in Anthropology
1989-1993	Member and Examiner of the Board of Studies in Medicine
1991-1993	Member and Examiner of the Board of Studies in Biology
1992-1993	Academic Advisory Board in Biological Sciences

Edith Cowan University, from 1993

From 1993	Member, University Academic Board Member, University Professorial Selection Panels Member, University Honorary Degrees Committee
1994-1997	Chair, Department of Human Biology
1994-1996 1997-1998	Chair, University Research and Development Committee
From 1996	Founding Director, Centre for Human Genetics
From 1994	Member, Faculty Board Member, Faculty Research Committee
1994-1998	Member, Chairpersons of Department Committee
From 2000	Founding Director, Centre for Health and Ageing

Research supervision

1. Completed Ph.D. theses supervised

Dr. Y. Sambuy (1982)	The effect of ageing processes on the free aminoacid pool of cultured human fibroblasts
Dr. A. Boak (1982)	Age-related changes in the membranes of cultured human diploid fibroblasts

U.K.

The Open University
University of Oxford
University of London: British Postgraduate Medical Federation
School of Hygiene and Tropical Medicine
Royal London Hospital School of Medicine and Dentistry
University College
University of Newcastle-upon-Tyne

Research awards

1) *Studentships and Fellowships*

1977-1980 Chelsea College Postgraduate Studentship
1978-1981 British Council/Government of Iran Studentship
1981-1983 Science and Engineering Research Council Postgraduate
Studentship
1982 Wellcome Trust Vacation Studentship
1991 King's College London Vacation Studentship
1992 King's College London Vacation Studentship
Total £15,643
1996-1997 Edith Cowan University Postdoctoral Fellowship
1997-1999 Edith Cowan University Postdoctoral Fellowship
2001-2003 Edith Cowan University Postdoctoral Fellowship
Total A\$330,000

2) *Study, travel and conference grants*

1979-1980 British Council Travel Grant
1980 British Council Travel Grant
1983 British Council Academic Links and Interchange Scheme Grant
Royal Society Travel Grant
1983-1984 British Council Academic Links and Interchange Scheme Grant
1985 Royal Society Travel Grant
1986 Royal Society Travel Grant
1988 British Council Travel Grant
Royal Society Travel Grant
1988-1989 Overseas Development Administration Visiting Specialist Award
1991 US Agency for International Development
1992 Royal Society Travel Grant
1993 Royal Society Travel Grant
Total £18,790
2002 Wellcome Trust
World Health Organization
BankWest
2004 AusAID
Birth Defects Foundation (U.K.)

Genzyme Pty.
Pasteur Institute
Wellcome Trust (x2)
World Health Organization

Total A\$99,540

3) *Project grants*

1978-1982 University of London Central Research Fund Equipment Grant
1978-1981 Wellcome Trust Research Grant
1980 British Council Consumables Grant
1980-1983 Marie Stopes Research Fund Project Grant
1982 British Council Book Grant
1982-1985 Indian Council for Medical Research Project Grant
1982-1985 Royal Society Scientific Investigations Grant
1983-1984 Economic and Social Research Council Project Grant
1984-1987 Overseas Development Administration Project Grant
1984-1985 Economic and Social Research Council Project Grant Extension
1985-1988 Overseas Development Administration Consumables Grant
1986 King's College Academic Development Fund
1987-1988 British Council Equipment Spares Grant
1988-1989 British Council Equipment Spares Grant
1989 Stopes Research Fund
1989 ERASMUS Project Grant
1991 British Council Equipment Spares Grant
Stopes Research Fund
1991-1992 Leverhulme Trust
1992 Stopes Research Fund
1993-1996 Wellcome Trust Project Grant
1994-1996 The European Union Capital and Mobility Programme
Total £368,647

1993 Edith Cowan University Foundation Grant
1994 Edith Cowan University Small Grant
Edith Cowan University Foundation Grant
1994-1995 Australian Research Council Small Grant
1995-1996 Department of Industry, Science and Technology Bilateral Grant
1995-1997 Edith Cowan University Research Cell Development Grant
1996 Edith Cowan University Small Research Grant
1997 Australian Kidney Foundation Research Grant
1997-1998 Edith Cowan University Infrastructure Grant
Edith Cowan University Small Grant
1997-1999 Australian Research Council Large Grant
National Health and Medical Research Council Project Grant
1998 Australian Research Council Small Grants (x2)

	Australian Research Council Out-of-Cycle Award	
	Edith Cowan University Merit Award	
1998-1999	Edith Cowan University Distinguished Researcher Award	
1999-2000	Edith Cowan Research Program Grant	
1999	Australian Research Council Small Grant	
1999	Edith Cowan University Grant	
1999-2002	Edith Cowan Strategic Research Infrastructure Fund	
2001-2002	University of Western Australia Grant	
2002	Edith Cowan University Faculty Grant	
2004-2005	Australian Research Council Linkage Grant	
		Total A\$1,921,932

4) *Collaborative projects*

1985-1988	Indian Council for Medical Research: establishment of a Centre for Biomedical Studies (Investigations into the incidence of genetic disorders in the South Indian community, and the control of fertility)	
		Total £150,000
1997-1999	Department of Biotechnology, Government of India	
		Total A\$100,600
1999	Australian Research Council, RIEF Grant (with Murdoch and Curtin Universities)	
		Total A\$320,000
2002	Medical Research Council Infrastructure Research Grant for Genealogical and Biospecimen databases	
		Total A\$280,000

Publications

1) *Monographs*

- 1967 *Quality Control Procedures in the Clinical Biochemistry Laboratory with Particular Reference to Automated Analysis.*
Fellowship Thesis, Institute of Biomedical Sciences, London
- 1970 *The Effects of Temperature on the Growth of Three Species of the Genus Lactobacillus*
Moderatorship thesis, Trinity College, University of Dublin
- 1973 *The Application of Tissue Culture Techniques to the Study of Inborn Errors of Metabolism, with Particular Reference to Cystathionine synthase Activity*
PhD thesis, The Queen's University, Belfast
- 1986 *The Biology of Human Ageing*
eds. A.H. Bittles and K.J. Collins, Cambridge University Press, pp. 282
- 1992 *Minority Populations: Genetics, Demography and Health*
eds. A.H. Bittles and D.F. Roberts, Macmillan, London, pp. 276
- 1996 *Stress: Evolutionary, Biosocial and Clinical Perspectives*
eds. A.H. Bittles and P.A. Parsons, Macmillan, London, pp. 203
- 1997 *Community Control of Genetic and Congenital Disorders*
eds. A. Alwan, B. Modell, A.H. Bittles, A. Czeilel, H. Hamamy, World Health Organization, Eastern Mediterranean Region, Alexandria
- 2002 *Community Genetics in Developing Countries*
ed. A.H. Bittles, *Community Genetics* (2002) **5**, Karger, Basel

In press

- 2005 *Genetics and Population Health*
eds. A.H. Bittles and W.N. Erber, *Annals of Human Biology* (2005), **32** (2), Taylor & Francis, London

2) *Invited reviews*

- Bittles, A.H. (1980) Inbreeding in human populations. *Biochem. Rev.* **50**, 108-117.
- Bittles, A.H., Mason, W.H., Greene, J. and Appaji Rao, N. (1991) Reproductive behavior and health in consanguineous marriages. *Science* **252**, 789-794.
- Bittles, A.H. (1992) Evidence for and against a causal involvement of mitochondrial DNA mutation in mammalian ageing. *Mutat. Res.* **275**, 217-225.
- Bittles, A.H., and Neel, J.V. (1994) The costs of human inbreeding and their implications for variations at the DNA level. *Nature Genet.* **8**, 117-121.
- Bittles, A.H. (2001) Consanguinity and its relevance to clinical genetics. *Clin. Genet.* **60**, 89-98.
- Bittles, A.H., Grant, J.C., Sullivan, S.G. and Hussain, R. (2002) Does inbreeding lead to decreased human infertility? *Ann. Hum. Biol.* **29**, 111-131.
- Bittles, A.H. (2003) The bases of Western attitudes to consanguineous marriage. *Dev. Med. Child Neurol.* **45**, 135-138.
- Bittles, A.H. (2003) Consanguineous marriage and childhood health. *Dev. Med. Child Neurol.* **45**, 571-576.
- Bittles, A.H., Glasson, E.J., Sullivan, S.G. and Hussain, R. (2003) Changing patterns of lifestyle and life expectancy in people with intellectual disability. *Med. Genetika* **2**, 83-88. [In Russian]

Bittles, A.H. and Glasson, E.J. (2004) Clinical, social and ethical aspects of the changing life expectancy of people with Down syndrome. *Dev. Med. Child Neurol.* **46**, 282-286.

3) *Journal articles*

Bittles, A.H., Neill, D.W. and Bell, J. (1965) A rapid automated technique for the estimation of urinary creatinine levels. *J. Clin. Path.* **18**, 377-378.

Bittles, A.H. and Neill, D.W. (1965) Broadsheet on automation. *Assoc. Clin. Biochem.*

Rigas, A.N., Bittles, A.H., Hadden, D.R. and Montgomery, D.A.D. (1968) Circadian variation of glucose, insulin and free fatty acids during long-term use of oral hypoglycaemic agents in diabetes mellitus. *Brit. Med. J.* **4**, 25-28.

Bittles, A.H. and Carson, N.A.J. (1973) Tissue culture techniques as an aid to prenatal diagnosis and genetic counselling in homocystinuria. *J. Med. Genet.* **10**, 120-121.

Bittles, A.H. and Carson, N.A.J. (1974) Cystathionase deficiency in fibroblast cultures from a patient with primary cystathioninuria. *J. Med. Genet.* **11**, 121-122.

Bittles, A.H. (1975) The comparative analysis of three batches of foetal bovine serum used in tissue culture. *Med. Lab. Sciences* **31**, 253- 255.

Carson, N.A.J., Biggart, J.D., Bittles, A.H. and Donovan, D. (1976) Hereditary tyrosinaemia: a clinical, enzymatic and pathological study of an infant with the acute form of the disease. *Arch. Dis. Childh.* **51**, 106-113.

Bittles, A.H., Fulder, S.J., Grant, E.C. and Nicholls, M.R. (1979) The effects of ginseng on lifespan and stress responses in mice. *Gerontology* **25**, 125-131.

Bittles, A.H. (1979) Incest re-assessed. *Nature* **280**, 107.

Bittles, A.H. (1979) Low temperature storage of human diploid fibroblasts. *Ind. J. Cryogen.* **4**, 118-123.

Bittles, A.H. (1980) Acetylator phenotyping and genotyping using sulphadimidine. *Biochem. Educ.* **8**, 5-6.

Bittles, A.H. (1981) Genetic defects associated with human inbreeding. *Soc. Biol. and Hum. Affairs* **46**, 145-147.

Bittles, A.H. and Carson, N.A.J. (1981) Homocystinuria - studies on cystathionine- β -synthase, s-adenosyl-methionine synthetase and cystathionase activities in skin fibroblasts. *J. Inherit. Metab. Dis.* **4**, 3-6.

Bittles, A.H. and Carson, N.A.J. (1981) Homocystinuria - the effects of pyridoxine supplementation on cultured skin fibroblasts. *J. Inherit. Metab. Dis.* **4**, 7-9.

Radha Rama Devi, A. Appaji Rao, N. and Bittles, A.H. (1981) Consanguinity, fecundity and post-natal mortality in Karnataka, South India. *Ann. Hum. Biol.* **8**, 469-472.

Radha Rama Devi, A., Appaji Rao, N. and Bittles, A.H. (1982) Inbreeding in the State of Karnataka, South India. *Hum. Hered.* **32**, 8-10.

Sambuy, Y. and Bittles, A.H. (1982) The effects of *in vitro* ageing on the composition of the intracellular free aminoacid pool of human diploid fibroblasts. *Mech. Ageing Dev.* **20**, 279-287.

Shia, G.T., Ali, S. and Bittles, A.H. (1982) The effects of ginseng saponins on the growth and metabolism of human diploid fibroblasts. *Gerontology* **28**, 121-124.

Stanford, C.F. and Bittles, A.H. (1982) Vitamin B12 estimation and rifampicin. *Tubercle* **63**, 236-237.

Bittles, A.H. (1983) The intensity of human inbreeding depression. *Behav. and Brain Sciences* **6**, 103-104.

- Bittles, A.H., Radha Rama Devi, A., Venkat Rao, S. and Appaji Rao, N. (1983) A new-born screening programme for the detection of aminoacid disorders in South India. *Biochem. Rev.* **52**, 20-24.
- Boak, A.M., Bittles, A.H. and Quinn, P.J. (1983) Age-related ultrastructural changes in human embryonic lung fibroblasts. *Exptl. Gerontol.* **18**, 139-146.
- Harper, N. and Bittles, A.H. (1983) The effects of ginseng saponins on lactate dehydrogenase activity in the mouse. *Biochem. Soc. Trans.* **11**, 356-357.
- Bittles, A.H. and Harper, N. (1984) Increased glycolysis in ageing cultured diploid fibroblasts. *Bioscience Reports* **4**, 951-956.
- Harper, N., Osborne, A., Makov, U.E. and Bittles, A.H. (1984) The effects of oral ginseng administration on the activities and isoenzyme profiles of murine lactate dehydrogenases *Biochem. Pharmacol.* **33**, 1571-1573.
- Sambuy, Y. and Bittles, A.H. (1984) The effects of *in vitro* ageing of the exopeptidase of human diploid fibroblasts. *Mech. Ageing Dev.* **26**, 13-22.
- Bittles, A.H. and Harper, N. (1985) The shift to glycolysis in ageing cultured human diploid fibroblasts. *Biochem. Soc. Trans.* **13**, 263- 264.
- Bittles, A.H. and Makov, U.E. (1985) The use of linear regressions in the calculation of lethal-equivalent genes in Man. *Ann. Hum. Biol.* **12**, 287- 290.
- Bittles, A.H., Radha Rama Devi, A., Rajeshwari Sridhar, Savithri, H.S. and Appaji Rao, N. (1985) Inbreeding and post-natal mortality in South India: effects of the gene pool. *J. Genet.* **64**, 135-142.
- Bittles, A.H. (1986) Human ageing: cellular phenomenon or evolutionary determinant? *Intl. J. Anthropol.* **1**, 289-296.
- Bittles, A.H., McHugh, J.J. and Makov, E. (1986) The Irish Famine and its sequel: population structure changes in the Ards Peninsula 1841-1911. *Ann. Hum. Biol.* **13**, 473-487.
- Jalilian-Tehrani, M.H., Bittles, A.H. and Thomas, P.J. (1986) Effects of perinatal administration of isobutyl methylxanthine (IBMX) on [3H]-DA binding in the forebrain of the rat. *Meth. Find. Exptl. Clin. Pharmacol.* **8**, 197-201.
- Makov, E. and Bittles, A.H. (1986) On the choice of mathematical models for the estimation of lethal gene equivalents in man. *Heredity* **57**, 377-380.
- Bittles, A.H., Radha Rama Devi, A., Savithri, H.S., Rajeshwari Sridhar and Appaji Rao, N. (1987) Consanguineous marriage and postnatal mortality in Karnataka, South India. *Man (N.S.)* **22**, 736-745.
- Ghadiminejad, I., Harper, N., Bittles, A.H. and Baum, H. (1987) Age-dependent loss of a mitochondrial antigen in cultured human diploid fibroblasts. *Biochem. Soc. Trans.* **15**, 1177-1178.
- Harper, N., Ghadiminejad, I., Baum, H. and Bittles, A.H. (1987) Mitochondrial enzyme activity during *in vitro* ageing of human diploid fibroblasts. *Biochem. Soc. Trans.* **15**, 1176-1177.
- Radha Rama Devi, A., Appaji Rao, N. and Bittles, A.H. (1987) Consanguinity and the incidence of childhood genetic disease in Karnataka, South India. *J. Med. Genet.* **24**, 362-365.
- Appaji Rao, N., Radha Rama Devi, A., Savithri, H.S., Venkat Rao, S. and Bittles, A.H. (1988) Neonatal screening for amino acidurias in Karnataka, South India. *Clin. Genet.* **34**, 60-63.
- Bittles, A.H. (1988) Famine and man: lessons from the Irish past, a guide to the future? *Biol. Soc.* **5**, 109-118.
- Bittles, A.H., Baum, H. and Monks, N. (1988) Differential growth inhibition of human diploid fibroblasts by 2-deoxyglucose and antimycin A with ageing *in vitro*. *Gerontology* **34**, 236-241.

- Bittles, A.H., Radha Rama Devi, A. and Appaji Rao, N. (1988) Consanguinity, twinning and secondary sex ratio in Karnataka, South India. *Ann Hum Biol.* **15**, 455-460.
- Monks, N.J., Baum, H., Hipkiss, A.R. and Bittles, A.H. (1988) Age-dependent growth inhibition of human diploid fibroblasts by 2-deoxyglucose. *Biochem. Soc. Trans.* **16**, 617-618.
- Flannery, G.R., Baum, H. and Bittles, A.H. (1989) Mitochondrial antigenic structure and enzyme activity in ageing human diploid fibroblasts. *Ann. Hum. Biol.* **16**, 259-264.
- Shami, S.A., Schmitt, L.H. and Bittles, A.H. (1989) Consanguinity-related antenatal and postnatal mortality in the populations of seven Pakistani Punjab cities. *J. Med. Genet.* **26**, 267-271.
- Shami, S.A., Schmitt, L.H. and Bittles, A.H. (1990) Consanguinity, spousal age at marriage and fertility in seven Pakistani Punjabi cities. *Ann. Hum. Biol.* **17**, 97-105.
- Smith, M.T., Williams, W.R., McHugh, J.J. and Bittles, A.H. (1990) Isonymic analysis of post-Famine relationships in the Ards Peninsula, N.E. Ireland: effects of geographical and politico-religious boundaries. *Amer. J. Hum. Biol.* **2**, 245-254.
- Bittles, A.H. (1991) Societal stratification, consanguinity and fertility. *Behav. Brain Sci.* **14**, 312-313.
- Bittles, A.H. and Smith, M.T. (1991) ABO and Rh(D) blood group frequencies in the Ards Peninsula, N.E. Ireland: evidence for the continued existence of a major politico-religious boundary. *Ann. Hum. Biol.* **18**, 253-258.
- Shami, S.A., Qadeer, T., Schmitt, L.H. and Bittles, A.H. (1991) Consanguinity, gestational age and anthropometric measurements at birth in Pakistan. *Ann. Hum. Biol.* **18**, 523-527.
- Shami, S.A., Qaisar, R. and Bittles, A.H. (1991) Consanguinity and adult morbidity in Pakistan. *Lancet* **338**, 954-955. [Letter]
- Bittles, A.H. (1993) Inbreeding in human populations and its influence on fertility and health. *J. Biol. Ed.* **27**, 260-266.
- Bittles, A.H., Coble, J.M. and Appaji Rao, N. (1993) Trends in consanguineous marriage in Karnataka, South India, 1980-1989. *J. Biosoc. Sci.* **25**, 111-116.
- Bittles, A.H., Grant, J.C. and Shami, S.A. (1993) An evaluation of consanguinity as a determinant of reproductive behaviour and mortality in Pakistan. *Intl. J. Epidemiol.* **22**, 463-467.
- Bittles, A.H. (1994) The role and significance of consanguinity as a demographic variable. *Pop. Dev. Rev.* **20**, 561-584.
- Bittles, A.H. and Smith, M.T. (1994) Population decline and religious differentials in post-Famine marriage patterns, N. Ireland 1840-1915. I. Demographic and isonymic analysis. *Hum. Biol.* **66**, 59-76.
- Grant, J.C., Shami, S.A., Milligan, P.J. and Bittles, A.H. (1994) Counting the costs of human inbreeding: the application of relative and attributable risks to the assessment of consanguinity-associated mortality. *Perspect. Hum. Biol.*, **4**, 47-54.
- Ramadevi, R., Savithri, H.S., Bittles, A.H. and Appaji Rao, N. (1994) Characterization of a variant glucose 6-phosphate dehydrogenase from the South Indian population. *Ind. J. Biochem. Biophys.*, **31**, 361-365.
- Ramadevi, R., Savithri, H.S., Radha Rama Devi, A., Bittles, A.H. and Appaji Rao, N. (1994) An unusual distribution of glucose 6-phosphate dehydrogenase deficiency of South Indian newborn population. *Ind. J. Biochem. Biophys.* **31**, 358-360.
- Shami, S.A., Grant, J.C. and Bittles, A.H. (1994) Consanguineous marriage within social/occupational class boundaries in Pakistan. *J. Biosoc. Sci.* **26**, 91-96.

- Bittles, A.H. (1995) When cousins marry: consanguineous marriage in the Middle East. *Perspec. Hum. Biol.* **1**, 71-83.
- Kalaydjieva, L., Hallmayer, J., Chandler, D. *et al.* (1996) Gene mapping in Gypsies identifies a novel demyelinating neuropathy on chromosome 8q24. *Nature Genet.* **14**, 214-217.
- Grant, J.C. and Bittles, A.H. (1997) The comparative role of consanguinity in infant and child mortality in Pakistan. *Ann. Hum. Genet.* **61**, 143-149.
- Nelson, J., Smith, M. and Bittles, A.H. (1997) Consanguineous marriage and its clinical consequences in migrants to Australia. *Clin. Genet.* **52**, 142-146.
- Brightwell, R.F., Crawford, G.P.M., Cale, J.B., Pedler, P. and Bittles, A.H. (1998) Ageing and the haematological profile of an Australian community. *Ann. Hum. Biol.* **25**, 1-10.
- Hussain, R. and Bittles, A.H. (1998) The prevalence and demographic characteristics of consanguineous marriages in Pakistan. *J. Biosoc. Sci.* **30**, 261-279.
- Bittles, A.H. (1999) Medical, ethical and legal perspectives of the new genetics. *Persp. Bioéticas* **4**, 11-27 [In Spanish].
- Hussain, R. and Bittles, A.H. (1999) Consanguinity and differentials in age at marriage, contraceptive use and fertility in Pakistan. *J. Biosoc. Sci.* **31**, 121-138.
- Irving, J., Bittles, A.H., Peverall, J., Murch, A. and Matson, P. (1999) The ratio of X- and Y-bearing sperm in the ejaculates of men with three or more children of the same sex. *J. Assist. Reprod. Genet.* **16**, 492-494.
- Roughton, S.A., Lareu, R.L., Bittles, A.H. and Dharmarajan, A.M. (1999) FAS and FASL messenger ribonucleic acid and protein expression in the rat corpus luteum during apoptosis-mediated luteolysis. *Biol. Reprod.* **60**, 797-804.
- Bittles, A.H. and Hussain, R. (2000) An analysis of consanguineous marriage in the Muslim population of India at regional and state levels. *Ann. Hum. Biol.* **27**, 163-171.
- Hussain, R. and Bittles, A.H. (2000) Sociodemographic correlates of consanguineous marriage in the Muslim population of India. *J. Biosoc. Sci.* **32**, 433-442.
- Savithri, H.S., Venkatesha Murthy, H.S., Baskaran, G., Appaji Rao, N., Kool, D., Edkins, E., Wang, W. and Bittles, A.H. (2000) Predictive testing for familial adenomatous polyposis in a rural South Indian community. *Clin. Genet.* **58**, 57-60.
- Wang, W., Sullivan, S.G., Ahmed, S., Chandler, D., Zhivotovsky, L.A. and Bittles, A.H. (2000) A genome-based study of consanguinity in three co-resident endogamous Pakistan communities. *Ann. Hum. Genet.* **64**, 41-49.
- Black, M.L., Wang, W. and Bittles, A.H. (2001) A genome-based study of the Muslim Hui community and the Han population of Liaoning Province, PR China. *Hum. Biol.* **73**, 801-813.
- Hussain, R., Sullivan S.G. and Bittles, A.H. (2001) Consanguinity and early mortality in the Muslim populations of India and Pakistan. *Amer. J. Hum. Biol.* **13**, 777-787.
- Port, K.E. and Bittles, A.H. (2001) A population-based estimate of the prevalence of consanguineous marriage in Western Australia. *Commun. Genet.* **4**, 97-101.
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6) *Research reports and scientific correspondence*

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7) *Encyclopaedia contributions*

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Conference organizer

- 1984 Symposium of the Society for the Study of Human Biology: *The Biology of Human Ageing*, London, U.K.
- 1990 27th Symposium of the Galton Institute: *Genetics, Demography and Health of Minority Populations*, London, U.K.
- 1993 Annual Meeting of the American Association for the Advancement of Science: Session on *Determinants and Consequences of Human Inbreeding: a Global Perspective*, Boston, U.S.A.
13th Congress of the International Union of Anthropological and Ethnological Sciences: Session on *Biological and Demographic Aspects of Ageing*, Mexico City, Mexico.
- 1994 31st Symposium of the Galton Institute: *Stress: Evolutionary, Biosocial and Clinical Outcomes*, London, U.K.
8th Annual Meeting of the Australasian Society for Human Biology: *Genes, Ethnicity and Ageing*, Perth, Australia
- 1997 Combined Meeting of the International Union of Anthropological and Ethnological Sciences, Australasian Society of Human Biology and Human Genetics Society of Australasia: *Human Genetics: Diversity and Disease*, Fremantle, Australia.
- 1998 Commission for Aging and the Aged, 14th International Congress of Anthropological and Ethnological Sciences, Williamsburg, VA., U.S.A.
- 2002 Workshop and Symposium: *Community Genetics in Developing Countries*, Bangalore, India.
West Australian Human Genetics Research Forum, *Recent Advances in Human and Medical Genetics*, Perth
- 2004 *1st Asian Workshop on Genomics and Community Genetics*, Shenzhen, PR China
WHO and Australian Public Health Genetics Consortium, *Genetics and Population Health*, Fremantle, Australia

Forthcoming

- 2005 *1st South American Workshop on Genomics and Community Genetics*, Florianopolis, Brazil

Lectures and conference papers: from 1990 only

1) Public lectures

- 1993 Inaugural Professorial Lecture, Edith Cowan University: *Family affairs: the study of marriages between close relatives*, Edith Cowan University, Perth, Australia
- 1996 7th G.J.S. Rao Memorial Lecture of the Indian Society of Biological Chemists: *Studies into the effects of human inbreeding: a developing picture*, Indian Institute of Science, Bangalore, India
- 1998 Hereditary Diseases Program, Health Department of Western Australia and Scitech Discovery Centre, *Human inbreeding - facts, figures and cautionary tales*, Perth, Australia
- 1999 Walker-Ames Lecture, University of Washington, School of International Studies, *Cousin marriage: dangerous or desirable?*, Seattle, U.S.A.
Hereditary Diseases Program, Health Department of Western Australia and Scitech Discovery Centre, *Genetics and Social Justice*, Perth, Australia

- 2002 Inaugural Prof. V. Ramalingaswami Memorial Lecture, *Endogamy, Consanguinity and Community Genetics*, Indian Institute of Science, Bangalore, India
- 2003 Pavee Point Community Development Support Programme, *Why consanguineous marriage?*, University College Galway, Ireland
- 2) *Conference chair*
- 1993 London School of Economics and Political Science, Centre for Philosophy of the Natural and Social Sciences: *Evolution and the Human Sciences*, London, U.K.
Symposium: *Medical Genetics in the Setting of Middle Eastern Populations*, King Saud University, Riyadh, Saudi Arabia
- 1995 HUGO Europe, *Human Genome Variation in Europe: DNA markers*", Barcelona, Spain
- 1998 5th World Academic Conference on Human Ecology, Adelaide, Australia
- 1999 XI Congress of the Spanish Society for Biological Anthropology, Santiago de Compostela, Spain
- 2002 16th Annual Scientific Meeting of the Australasian Society for Human Biology, Perth, Australia
- 2003 *International Congress of Medical Genetics*, Dubai, United Arab Emirates
- 3) *Invited papers*
- 1990 28th Symposium of the SSHB: *Urban Health and Ecology in the Third World*, University of Durham, U.K.
- 1991 Ciba Discussion Meeting: *Social and Medical Implications of Consanguineous Marriage among British Pakistanis*, London, U.K.
Institute for Resource Development/Demographic and Health Surveys: *DHS World Conference*, Washington, D.C., U.S.A.
- 1992 30th Symposium of the SSHB: *Seasonality and Human Ecology*, University of Cambridge, U.K.
Bay Area Colloquium on Population, University of California, Berkeley, U.S.A.
- 1993 Symposium: *Medical Genetics in the Setting of Middle Eastern Populations*, King Saud University, Riyadh, Saudi Arabia.
- 1994 Annual Meeting of the British Society for Population Studies, University of Durham, U.K.
16th International Union of Biochemistry and Molecular Biology, Post-Congress Symposium: *Molecular Mechanisms of Enzyme Action*, Indian Institute of Science, Bangalore, India.
- 1995 2nd European Science Foundation Meeting on Human Genetics, *Inherited Disorders and their Genes in Different European Populations*, San Feliu de Guixols, Spain.
9th Annual Conference of the Australasian Society for Human Biology, R.M.I.T. Melbourne, Australia.
- 1996 34th Symposium of the SSHB, *Human Biology and Social Inequality*, London School of Hygiene and Tropical Medicine, London, U.K.
10th Congress of the European Anthropological Association, *Advances in Methodologies in Anthropology*", Vrije Universiteit, Brussels, Belgium.
- 1997 5th National Conference of the Australian Bioethics Association, University of Melbourne, Australia.

- International Union for the Scientific Study of Population Workshop, *Age - Between Nature and Culture*, Max Planck Institute for Demographic Research, Rostock, Germany.
- 23rd General Conference of the International Union for the Scientific Study of Population, *Issues in Biological Demography and Genetics*, Beijing, PR China.
- 1998 21st Century Trust, *Genetics, Identity and Justice*, Merton College, Oxford, U.K.
 36th Symposium of the SSHB, *Health and Ethnicity*, Oxford Brookes University, U.K.
 11th Biosocial Society Workshop, *Infertility in the Modern World: Current and Future Prospects*, University of Cambridge, U.K.
 Festschrift for Prof. A.J. Bellingham, Outgoing President, Royal College of Pathologists, London, U.K.
- 1999 XI Congress of the Spanish Society for Biological Anthropology, Universidad del Santiago de Compostela, Spain.
- 2000 *Inbreeding Avoidance, Incest and the Incest Taboo*, Stanford University, U.S.A.
 70th Anniversary Symposium of the Japanese Society of Human Ecology and Health, Nagasaki, Japan.
 International Research Center for Japanese Studies, *Mating Systems, Mate Choice and Sexual Selection in Humans*, Kyoto, Japan.
- 2001 *Understanding the Population History of South Asia and Oceania: how Informative are Genetic Studies on the Contemporary Indigenous Populations?* Annual Meeting of the American Association of Physical Anthropologists, Kansas City, U.S.A.
Evolutionary Medicine and Public Health, The University of Western Australia, Perth, Australia.
 Mac Keith Workshop *Consanguineous Marriage in the United Kingdom: Implications for Health Service Delivery and Practice*, Royal Society of Medicine, London, U.K.
- 2001 Mac Keith Meeting *Consanguineous Marriage in the U.K. : a Multidisciplinary Strategy*, Royal Society of Medicine, London, U.K.
 Australasian Thalassaemia Workshop, Perth, Australia.
Historical Demography of Ethnicity, California Institute of Technology, Pasadena, U.S.A.
Law, Ethics, and Genetics in an Age of Biotechnology: Regulation and Discrimination, Perth, Australia.
 5th Annual Meeting of the Irish Society for Human Genetics, Dublin, Ireland.
- 2003 19th International Congress of Genetics, Melbourne, Australia.
 Demographic Database Workshop, Umeå, Sweden.
 International Congress of Medical Genetics, Dubai, United Arab Emirates.
- 2004 28th General Assembly of the International Union of Biological Sciences, Cairo, Egypt.
The New History of Kinship, International Union for the Scientific Study of Population/ INED, Paris, France.
Consanguinity and Mediterranean Community Genetics, European School of Medicine, Alexandria, Egypt.
- Forthcoming**
- 2005 IUSSP Historical Demography Group, Mahón, Spain

- 4) *Contributed papers*
- 1990 15th Annual Meeting of the Human Biology Council, Miami
59th Annual Meeting of the American Association of Physical Anthropologists, Miami
Annual Meeting of the Population Association of America, Toronto
Vth International Congress of Inborn Errors of Metabolism, Monterey
- 1991 70th Meeting of the SSHB, London
- 1992 Annual Meeting of the Population Association of America, Denver
61st Annual Meeting of the American Association of Physical Anthropologists, Las Vegas
72nd Meeting of the SSHB, University of Cambridge
- 1993 13th Scientific Meeting of the International Epidemiological Association, University of Sydney
- 1994 Annual British Medical Genetics Conference, University of York
- 1995 Annual Scientific Meeting of the Human Genetics Society of Australasia, Brisbane
- 1996 21st Annual Meeting of the Human Biology Association, Raleigh/Durham, NC.
28th Annual Meeting of the European Society for Human Genetics, London
10th Annual Conference of the Australasian Society for Human Biology, Canberra
- 1997 5th World Academic Conference on Human Ecology/11th Annual Conference of the Australasian Society for Human Biology, Adelaide
- 1998 12th Scientific Meeting of the Australasian Society for Human Biology, Fremantle
- 1999 Human Genome Meeting 1999, Brisbane
23rd Annual Scientific Meeting of the Human Genetics Society of Australasia, Sydney
Annual Meeting of the British Society for Human Genetics, York
13th Scientific Meeting of the Australasian Society for Human Biology, Sydney
- 2000 REVES 12, Los Angeles
Annual Meeting of the Population Association of America, Los Angeles
12th Congress of the European Anthropological Association, Cambridge
Annual Meeting of the British Society for Human Genetics, York
Annual Meeting of the American Society for Human Genetics, Philadelphia
- 2001 Annual Meeting of the British Society for Human Genetics, York
Annual Scientific Meeting of the Human Genetics Society of Australasia
Annual Meeting of the Australasian Association for Gerontology
- 2002 Human Genome Meeting, HGM 2002, Shanghai
International Union for the Scientific Study of Population, Bangkok
- 2003 European Human Genetics Conference 2003, Birmingham
19th International Congress of Genetics, Melbourne
- 2005 European Human Genetics Conference 2005, Prague

Editorial Board member/referee/reviewer

Ageing and Society, American Journal of Epidemiology, American Journal of Human Biology, American Journal of Medical Genetics, American Journal of Physical Anthropology, Annals of Human Biology, Annals of Human Genetics, Biological Journal of the Linnaean Society, Brain and Behavioural Sciences, Bulletin de la Société Royale Belge D'Anthropologie et de Préhistoire, Clinical Genetics, Developmental Medicine and Child Neurology, Ethology and Social Biology, European Journal of Epidemiology, European Journal of Human Genetics, FEBS Letters, Genetical Research, Genetics, Health Transition Review, Heredity, Human Biology, Human Genetics, Indian Journal of Human Genetics, International Journal of Geriatric Psychiatry, Journal of Biological Education, Journal of Biosocial Science, Journal of Genetic Counseling, Journal of Human Ecology, Journal of Medical Genetics, Journal of Theoretical Biology, Mutation Research, Nature, Population and Development Review, Population Studies, Social Biology, Trends in Biotechnology.

Adviser/consultant/referee: from 1990 only

1990	British Broadcasting Corporation
1991	British Broadcasting Corporation
1992	Oxford University Press British Broadcasting Corporation
1993	Cambridge University Press British Broadcasting Corporation National Science Foundation (U.S.A.)
1994	Medical Research Council (U.K.) World Health Organization, Eastern Mediterranean Region International Science Foundation (U.S.A.)
1995	World Health Organization, Eastern Mediterranean Region
1996	World Health Organization, Eastern Mediterranean Region Third World Academy of Sciences
1997	World Health Organization, Eastern Mediterranean Region
1998	Natural Sciences and Engineering Council of Canada
1999	Australian Research Council Austrian Science Fund Natural Sciences and Engineering Council of Canada
2000	Australian Research Council Cambridge University Press
2001	Cambridge University Press Irish Travellers Consanguinity Working Group National Health and Medical Research Council World Health Organization
2002	Irish Travellers Consanguinity Working Group U.S. National Science Foundation Medical Research Council (U.K.)
2003	Irish Travellers Consanguinity Working Group

2004 Irish Travellers Consanguinity Working Group
Medical Research Council (U.K.)
National Health and Medical Research Council (Australia)
Sheikh Hamdan Medical Research Award, (U.A.E.)