Antonio Reverter-Gómez (Toni Reverter)
Curriculum Vitae

(Last update: February 2008)

PERSONAL DATA

Home Address: 22 Carissa Place
Chapel Hill, QLD 4069, Australia
Ph.: +61 7 3878 9251

Birth: 14 June 1966, Barcelona, Spain

Citizenship: Australian and Spanish

Languages: Catalan (native), Spanish (excellent), English (proficient), French (regular), Italian (poor)

Hobbies: Choir singing: Bass 1 at the Brisbane Chorale (http://www.brisbanechorale.org.au)

PROFFESSIONAL DATA

Present Position: Principal Research Scientist, Statistical Genetics and Bioinformatics
CSIRO Livestock Industries (http://www.csiro.au/li)
Queensland Bioscience Precinct
306 Carmody Rd., St. Lucia, QLD 4067, Australia
Ph.: +61 7 3214 2392 Fx.: +61 7 3214 2900
Email: Tony.Reverter-Gomez@csiro.au

Tertiary Education:

1989 – Bachelor of Veterinary Science
Universitat Autónoma de Barcelona, Spain
Concentration: Animal Production
Supervisor: Prof. Jesús Piedrafita

1994 – Master of Science in Statistics
Colorado State University, Fort Collins, CO, USA
Concentration: Linear Models and Components of Variance
Supervisor: Prof. Franklin A. Graybill
Thesis: Confidence intervals for ratios of linear combinations of variance components

1994 – Doctor of Philosophy in Animal Science
Colorado State University, Fort Collins, CO, USA
Concentration: Quantitative Genetics
Supervisor: Prof. Bruce L. Golden
Thesis: Method R: A procedure for the estimation of variance and covariance components

Awards:

2005 – Eureka Prize for Bioinformatics Research ($10,000)
(http://www.amonline.net.au/eureka/2005/index.htm)

2003 – Best Talk at BioInfoSummer symposium ($250)
December 2003, Australian National University, Canberra.
(http://wwwmaths.anu.edu.au/events/BioInfoSummer03/)

1989–1994 – INIA-USDA PhD Scholarship

1984 – CIRIT Award

Affiliations:
1. American Society of Animal Science (Member No. 46405)
2. Statistical Society of Australia Incorporated (Member No. 31592)
3. Association for Advancement of Animal Breeding and Genetics

Reviews for:
1. Bioinformatics (Oxford University Press)
2. Physiological Genomics
3. BMC Genomics
4. Genomics
5. Journal of Animal Science (Member of the Editorial Board 2005–2007)
6. Australian Journal of Experimental Agriculture
7. Proceedings of the National Academy of Sciences, USA
8. PLoS Genetics
9. Computational Statistics and Data Analysis
10. Animal

Work Experience: (prior to joining CSIRO)

Nov. 1995 – Sep. 2002	From Research Scientist to Senior Research Scientist Animal Genetics and Breeding Unit (AGBU) University of New England Armidale, NSW 2351, Australia
May 1995 – Nov. 1995	Research Scientist (casual, awaiting Australian Immigration visa) Veterinary School, Universitat Autónoma de Barcelona 08193 Bellaterra, Barcelona, Spain
Oct. 1994 – May 1995	Post-Doctoral Fellow Servicio de Producción Agraria 06001 Badajoz, Spain

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PUBLICATIONS

Patents

W. Barendse and **A. Reverter** (2007) A method for assessing traits selected from longissimus dorsi peak force, intramuscular fat, retail beef yield and net feed intake in bovine animals. WO/2007/012119 (http://www.wipo.int/pctdb/en/wo.jsp?LANGUAGE=ENG&KEY=07/012119&ELEMENT_SET=F).

Book chapters

K. Prayaga and **A. Reverter** (2007) Precision animal breeding. In *Redesigning Animal Agriculture: The Challenge of the 21st Century*. CABI, Nosworthy Way, Wallingford, Oxon OX10 8DE, UK (ISBN: 9781845932237).

Peer-reviewed journals

1. R. Moser, **A. Reverter** and S.A. Lehnert (2008) Gene expression profiling of porcine peripheral blood leukocytes after infection with *Actinobacillus pleuropneumoniae*. Veterinary Immunology and Immunopathology, 121:260-274.
2. S.A. Lehnert, **A. Reverter**, K.A. Byrne, Y.H. Wang, G.S. Nattrass, N.J. Hudson and P.L. Greenwood (2007) Gene expression studies of developing bovine longissimus muscle from two different beef cattle breeds. BMC Developmental Biology, 7:95.

3. A. Ingham, **A. Reverter**, R. Windon, P. Hunt and M. Menzies (2007) Gastrointestinal nematode challenge induces some conserved gene expression changes in the gut mucosa of genetically resistant sheep. International Journal for Parasitology, 38:432-442.

4. H.N. Kadarmideen and **A. Reverter** (2007) Combined genetic, genomic and transcriptomic methods in the analysis of animal traits. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, 2:1-16.

5. E. de la Vega, M.R. hall, K.J. Wilson, **A. Reverter**, R.G. Woods and B.M. Degnan (2007) Stress-induced gene expression profiling in the black tiger shrimp *Penaeus monodon*. Physiological Genomics, 31:126-138.

6. Y. H. Wang, **A. Reverter**, D. Kemp, S. M. McWilliam, A. Ingham, C. Davis, R. J. Moore and S. A. Lehnert (2007) Gene expression profiling of Hereford Shorthorn cattle following challenge with *Boophilus microplus* tick larvae. Aust. J. Exp. Agric. 47:1397-1407.

7. W. Barendse, **A. Reverter**, R.J. Bunch, B.E. Harrison, W. Barris and M.B. Thomas (2007) A validated whole genome association study of efficient food conversion in cattle. Genetics 176:1893-1905.

8. T. Vuocolo, K.A. Byrne, J. White, S. McWilliam, **A. Reverter**, N.E. Cockett and R.L. Tellam. (2007) Identification of a gene network contributing to hypertrophy in Callipyge skeletal muscle. Physiological Genomics 28:253-272

9. **A. Reverter**, N.J. Hudson, Y.H. Wang, S.-H. Tan, W. Barris, S.M. McWilliam, C.D.K. Bottema, A. Kister, P.L. Greenwood, G.S. Harper, S.A. Lehnert and B.P. Dalrymple (2006) A gene co-expression network for bovine skeletal muscle inferred from microarray data. Physiological Genomics 28:76-83.

10. **A. Reverter**, A. Ingham, S.A. Lehnert, S.H. Tan, Y.H. Wang, A. Ratnakumar and B.P. Dalrymple. (2006) Simultaneous identification of differential gene expression and connectivity in inflammation, adipogenesis and cancer. Bioinformatics 22:2396-2404.

11. T. Rice, E. McGraw, E.K. O'Brien, **A. Reverter**, D.J. Jackson and B.M. Degnan (2006) Parasitic castration by the digenian trematode *Allopodocotyle* sp. alters gene expression in the brain of the host mollusc *Haliotis asinina*. FEBS Letters 580:3769-3774.

12. S.A. Lehnert, K.A. Byrne, **A. Reverter**, G.S. Nattrass, P.L. Greenwood, Y.H. Wang, N.J. Hudson and G.S. Harper (2006) Gene expression profiling of bovine skeletal muscle in response to and during recovery from chronic and severe under-nutrition. J. Anim. Sci. 84:3239-3250.

13. S.A. Lehnert, Y. H. Wang, S.H. Tan and **A. Reverter** (2006) Gene expression-based approaches to beef quality research. Australian Journal of Experimental Agriculture 46:165-172.

14. G-P. Xue, C.L. McIntyre, N.I. Bower, H. Way, **A. Reverter**, S. Chapman, B. Clarke and R. Shorter (2006) Differential gene expression of wheat progeny with contrasting levels of transpiration efficiency. Plant Molecular Biology 61:863-881.

15. S.-H. Tan, **A. Reverter**, Y.H. Wang, K.A. Byrne, S.M. McWilliam, and S.A. Lehnert (2006) Gene expression profiling of bovine *in vitro* adipogenesis using a cDNA microarray. Functional and Integrative Genomics 6:235-249 (6.doi:10.1007/s10142-005-0016-x).

16. M. Hope, G. Riding, M. Menzies, I. Colditz, **A. Reverter**, and P. Willadsen (2005) Potential for recombinant *Babesia bovis* antigens to protect against a highly virulent isolate. Parasite Immunology, 27:439-445.

17. L. Donaldson, T. Vuocolo, C. Gray, Y. Strandberg, **A. Reverter**, S.M. McWilliam, Y.H. Wang, K.A. Byrne, and R. Tellam (2005) Construction and validation of a Bovine innate immune microarray. BMC Genomics 6:135 (http://www.biomedcentral.com/content/pdf/1471-2164-6-135.pdf).

18. C.A. Kerr, K.L. Bunter, R. Seymour, B. Shen, and **A. Reverter** (2005) The heritability of two stress-regulated gene fragments in pigs. J. Anim. Sci. 83:1753-1765.

19. **A. Reverter**, W. Barris, N. Moreno-Sánchez, S.M. McWilliam, Y.H. Wang, G.S. Harper, S.A. Lehnert, and B.P. Dalrymple (2005) Construction of gene interaction and regulatory networks in Bovine skeletal muscle from expression data. Aust. J. Exp. Agric. 45:821-829.

20. B.J. Norris, N.I. Bower, W.J.W. Smith, G.R. Cam, and **A. Reverter** (2005) Gene expression profiling of Ovine skin and wool follicle development using a combined Ovine-Bovine cDNA microarray. Aust. J. Exp. Agric. 45:867-877.

21. Y.H. Wang, **A. Reverter**, H. Mannen, M. Taniguchi, G.S. Harper, K. Oyama, K.A. Byrne, A. Oka, S. Tsuji, and S.A. Lehnert (2005) Transcriptional profiling of muscle tissue in growing Japanese Black cattle to identify genes involved with the development of intramuscular fat. Aust. J. Exp. Agric. 45:809-820.

22. Y.H. Wang, K.A. Byrne, **A. Reverter**, G.S. Harper, M. Taniguchi, S.M. McWilliam, H. Mannen, K. Oyama, and S.A. Lehnert. (2005) Transcriptional profiling of muscle tissue in two breeds of beef cattle. Mammalian Genome 16:201-210.

23. C.A. Kerr, L.R. Giles, M.R. Jones, and **A. Reverter** (2005) Effects of grouping, high ambient temperature and space per pig on live performance of growing pigs. J. Anim. Sci. 83:908-915.

24. N.I. Bower, R.E. Casu, D.J. Maclean, **A. Reverter**, S.C. Chapman, and J.M. Manners (2005) Transcriptional response of sugarcane roots to methyl jasmonate. Plant Sci. 168:761-772.

25. K.A. Byrne, Y.H. Wang, S.A. Lehnert, G.S. Harper, S.M. McWilliam, H.L. Bruce, and **A. Reverter** (2005) Gene expression profiling of muscle tissue in Brahman steers during nutritional restriction. J. Anim. Sci. 83:1-12.

26. **A. Reverter**, W. Barris, S.M. McWilliam, K.A. Byrne, Y.H. Wang, S.H. Tan, N. Hudson, and B.P. Dalrymple (2005) Validation of alternative methods of data normalization in gene co-expression studies. Bioinformatics 21:1112-1120.

27. **A. Reverter**, S.M. McWilliam, W. Barris, and B.P. Dalrymple (2005) A rapid method for computationally inferring transcriptome coverage and microarray sensitivity. Bioinformatics 21:80-89.

28. **A. Reverter**, Y.H. Wang, K.A. Byrne, S.K. Tan, G.S. Harper, and S.A. Lehnert (2004) Joint analysis of multiple cDNA microarray studies via multivariate mixed-models applied to genetic improvement of beef cattle. J. Anim. Sci. 82:3430-3439.

29. R.J. Moser, **A. Reverter**, C.A. Kerr, K.J. Beh, and S.A. Lehnert (2004) A mixed-model approach for the analysis of cDNA microarray gene expression data from extreme-performing pigs after infection with *Actinobacillus pleuropneumonia*. J. Anim. Sci. 82:1261-1271

30. **A. Reverter**, K.A. Byrne, H.L. Bruce, Y.H. Wang, B.P. Dalrymple, and S.A. Lehnert (2003) A mixture model-based cluster analysis of DNA microarray gene expression data on Brahman and Brahman composite steers fed high-, medium-, and low-quality diets. J. Anim. Sci. 81:1900-1910

31. D.J. Johnston, **A. Reverter**, H.M. Burrow, V.H. Oddy, and D.L. Robinson (2003) Genetic and phenotypic characterisation of animal, carcass, and meat quality traits from temperate and tropically adapted beef breeds. 1. Animal measures. Austr. J. Agric. Res. 54:107-118

32. **A. Reverter**, D.J. Johnston, D. Perry, M.E. Goddard, and H.M. Burrow (2003) Genetic and phenotypic characterisation of animal, carcass, and meat quality traits from temperate and tropically adapted beef breeds. 2. Abattoir carcass traits. Austr. J. Agric. Res. 54:119-134

33. D.J. Johnston, **A. Reverter**, D.M. Ferguson, J.M. Thompson, and H.M. Burrow (2003) Genetic and phenotypic characterisation of animal, carcass, and meat quality traits from temperate and tropically adapted beef breeds. 3. Meat quality traits. Austr. J. Agric. Res. 54:135-147

34. **A. Reverter**, D.J. Johnston, D.M. Ferguson, D. Perry, M.E. Goddard, H.M. Burrow, V.H. Oddy, J.M. Thompson, and B.M. Bindon (2003) Genetic and phenotypic characterisation of animal, carcass, and meat quality traits from temperate and tropically adapted beef breeds. 4. Correlations among animal, carcass, and meat quality traits. Austr. J. Agric. Res. 54:149-158

35. S. Newman, **A. Reverter**, and D.J. Johnston (2002) Purebred-crossbred performance and genetic evaluation of postweaning growth and carcass traits in *Bos indicus x B. taurus* crosses in Australia. J. Anim. Sci. 80:1801-1808

36. D.J. Brown and **A. Reverter** (2002) A comparison of methods to pre-adjust data systematic environmental effects in genetic evaluation of sheep. Livest. Prod. Sci. 75:281-291

37. T. Druet, I. Misztal, M. Duangjinda, **A. Reverter**, and N. Gengler (2001) Estimation of genetic covariances with Method R. J. Anim. Sci. 79:605-615

38. D.J. Johnston, **A. Reverter**, D.L. Robinson and D.M. Ferguson (2001) Sources of variation in mechanical shear force measures of tenderness in beef from tropically adapted genotypes, effects of data editing and their implications for genetic parameter estimation. Austr. J. Exper. Agric. 41:991-996

39. D.J. Brown, B. Tier, **A. Reverter**, R. Banks, and H.-U. Graser (2001) OVIS: A multiple trait breeding value estimation program for genetic evaluation of sheep. Wool Tech. Sheep Breed. 48(4):285-297

40. **A. Reverter**, D.J. Johnston, H.-U. Graser, M.L. Wolcott, and W.H. Upton (2000) Genetic analyses of live-animal ultrasound and abattoir carcass traits in Australian Angus and Hereford cattle. J. Anim. Sci. 78:1786-1795

41. **A. Reverter**, C.J. Kaiser, and C.H. Mallinckrodt (1998) A bootstrap approach to confidence regions for genetic parameters from Method R estimates. J. Anim. Sci. 76:2263-2271

42. **A. Reverter** and C.J. Kaiser (1997) The role of different pedigree structures on the sampling variance of heritability estimates. J. Anim. Sci. 75:2355-2361

43. **A. Reverter** B. Tier, D.J. Johnston, and H.-U. Graser (1997) Assessing the efficiency of multiplicative mixed model equations to account for heterogeneous variance across herds in carcass scan traits from beef cattle. J. Anim. Sci. 75:1477-1485

44. C.H. Mallinckrodt, B.L. Golden, and **A. Reverter** (1997) Approximate confidence intervals for heritability from Method R estimates. J. Anim. Sci. 75:2041-2046

45. T. Rigau, J. Piedrafita, **A. Reverter**, M. Canal, and J.E. Rodriguez-Gil (1996) The rate of L-lactate production: A feasible parameter for the fresh diluted boar semen quality analysis. Anim. Reprod. Sci. 43:161-172

46. **A. Reverter** and B.L. Golden (1995) Technical Note: Changes in genetic predictions between subsequent evaluations. J. Anim. Sci. 73:2204-2207

47. J. Torrent, **A. Reverter** and D.E. Johnson (1995) Technical Note: Assessing the consistency of measurement procedures in animal energetics and nutrition. J. Anim. Sci. 73:1208-1212

48. **A. Reverter**, B.L. Golden, R.M. Bourdon, and J.S. Brinks (1994) Method R variance components procedure: Application on the simple breeding value model. J. Anim. Sci. 72:2247-2253

49. **A. Reverter**, B.L. Golden, R.M. Bourdon, and J.S. Brinks (1994) Technical Note: Detection of bias in genetic predictions. J. Anim. Sci. 72:34-37.

50. G. López de Torre, J.J. Candotti, **A. Reverter**, M.M. Bellido, P. Vasco, L.J. Carcía, and J.S. Brinks (1992) Effects of growth curve parameters on cow efficiency. J. Anim. Sci. 70:2668-2672.

Peer-reviewed conference proceedings

51. **A. Reverter**, E.K.F. Chan, W. Barris and B.P. Dalrymple (2007) A systems biology approach for the comprehensive understanding of complex traits: application to beef cattle. Proc. Assoc. Advmt. Anim. Breed. Genet. 17:85-92.

52. E.K.F. Chan and **A. Reverter** (2007) Integrating whole-genome genetic association studies with gene expression data to prioritise candidate genes affecting intramuscular fat in beef cattle traits. Proc. Assoc. Advmt. Anim. Breed. Genet. 17:81-84.

53. **A. Reverter**, W. Barris, E.K.F. Chan, R. Hawken, W. Barendse and B. Dalrymple (2007) SNPaway: a SNP pruner for association studies based on a bootstrap forward regression approach. Proc. Assoc. Advmt. Anim. Breed. Genet. 17:284-287.

54. **A. Reverter** and B.P. Dalrymple (2006) Reversed engineering of gene networks for Bovine skeletal muscle: development and applications. Proc. 8th World Congr. Genet. Appl. Livest. Prod. (Invited).

55. G.-P. Xue, C.L. McIntyre, N.I. Bower, H. Way, **A. Reverter**, S. Chapman, B. Clarke and R. Shorter (2006) Differential gene expression between wheat genotypes contrasting in transpiration efficiency. Plant & Animal Genomes XIV Conference, Jan 14-18, San Diego,CA (http://www.intl-pag.org/14/abstracts/PAG14_P758.html).

56. S.M. McWilliam, S.A. Lehnert and **A. Reverter** (2005) Annotation analysis of a bovine cDNA microarray for expression profiling of muscle and adipose tissue. Proc. Assoc. Advmt. Anim. Breed. Genet. 16:393-396.

57. **A. Reverter**, Y.H. Wang, K.A. Byrne, S.A. Lehnert, and B.P. Dalrymple (2003) Intensities versus intensity ratios in the analysis of cDNA microarray data. Proc. Assoc. Advmt. Anim. Breed. Genet. 15:86-89

58. **A. Reverter**, K.A. Byrne, and B.P. Dalrymple (2003) BAYESMIX: A software program for Bayesian analysis of mixture models with an application to model-based clustering of microarray gene expression data. Proc. Assoc. Advmt. Anim. Breed. Genet. 15:90-93

59. **A. Reverter**, D.J. Johnston and H.-U. Graser (2003) First experiences with an across country genetic evaluation system for beef cattle. Proc. 33rd Biennial Session of ICAR, EAAP publication No. 107:139-145.

60. J.A. Archer, **A. Reverter**, R.M. Herd, D.J. Johnston, and P.F. Arthur (2002) Genetic variation in feed intake and efficiency of mature beef cows and relationships with postweaning measurements. Proc. 7th World Congr. Genet. Appl. Livest. Prod. Communication No. 10-07

61. D.J. Brown and **A. Reverter** (2002) The use of weaning weight to adjust for pre-weaning environmental effects on bodyweight, fleece weight and fibre diameter in merino hoggets. Proc. 7th World Congr. Genet. Appl. Livest. Prod. Communication No. 12-05

62. **A. Reverter** and B. Tier (2002) Inference on genotype probability based on polygenic estimated breeding values. Proc. 7th World Congr. Genet. Appl. Livest. Prod. Communication No. 22-19

63. D.J. Brown, B. Tier, **A. Reverter**, A. Ball, and R. Banks (2001) Genetic parameters for liveweight, wool growth and litter size and the associations among these traits in Corriedale sheep. Proc. Assoc. Advmt. Anim. Breed. Genet. 14:119-122

64. D.J. Brown, **A. Reverter**, and B. Tier (2001) Influence of environmental factors and trait representation on the genetic evaluation of reproductive traits in sheep. Proc. Assoc. Advmt. Anim. Breed. Genet. 14:131-134

65. **A. Reverter** and D.J. Johnston (2001) Genetic parameter estimates for weight of bones in beef cattle. Proc. Assoc. Advmt. Anim. Breed. Genet. 14:155-158

66. **A. Reverter** and D.J. Johnston (2001) Genetic analyses of live-animal ultrasound and abattoir carcase traits in Angus and Hereford cattle. Proc. Assoc. Advmt. Anim. Breed. Genet. 14:159-162

67. D.J. Johnston, R. Herd, **A. Reverter**, and V.H. Oddy (2001) Heritability of IGF-I in beef cattle and its association with growth and carcase traits. Proc. Assoc. Advmt. Anim. Breed. Genet. 14:163-166

68. **A. Reverter**, D. Brown, and B. Tier (2001) PARITIES: A software program to simulate number of individuals born for multiparous species. Proc. Assoc. Advmt. Anim. Breed. Genet. 14:389-392

69. **A. Reverter**, D.J. Johnston, H.-U. Graser, and D. Perry (2001) Predition of retail beef yield percent from a number of wholesale primal cuts for use in genetic evaluation. Proc. Assoc. Advmt. Anim. Breed. Genet. 14:469-472

70. **A. Reverter**, E. Farrell, and C. Hutchinson (2001) A web interface for the Beef CRC database. Proc. Assoc. Advmt. Anim. Breed. Genet. 14:485-488

71. D.J. Johnston, **A. Reverter**, J.M. Thompson, and D. Perry (1999) Genetic and phenotypic relationships between four methods of assessing intramuscular fat in beef carcases. Proc. Assoc. Advmt. Anim. Breed. Genet. 13:345-348

72. D.J. Johnston, **A. Reverter**, D. Perry, J.M. Thompson, and R.W. Dicker (1999) Early results of the genetic relationship between postweaning growth and carcase intramuscular fat in steers. Proc. Assoc. Advmt. Anim. Breed. Genet. 13:349-352

73. **A. Reverter** (1999) Confidence regions for genetic parameters of ultrasound scans and actual carcass measurements of intramuscular fat. Proc. Assoc. Advmt. Anim. Breed. Genet. 13:377-380

74. **A. Reverter**, D.J. Johnston, E. Stephens, and D. Perry (1999) Development of a prediction equation for retail beef yield percent to be used in national genetic evaluation schemes. Proc. Assoc. Advmt. Anim. Breed. Genet. 13:381-384

75. H.-U. Graser, **A. Reverter**, W. Upton, K. Donoghue, and D.E. Wilson (1998) Use of real-time ultrasound measurements of fat thickness and percent intramuscular fat for the Angus breed in Australia. Proc. 6th World Congr. Genet. Appl. Livest. Prod. 23:69-72

76. C.J. Kaiser, M.E. Goddard, and **A. Reverter** (1998) Analysis of gametic imprinting effects for test day milk yield in Australian Holstein cattle. Proc. 6th World Congr. Genet. Appl. Livest. Prod. 23:355-358

77. **A. Reverter** (1998) Empirical evidence of the optimality of Method R estimates. Proc. 6th World Congr. Genet. Appl. Livest. Prod. 25:533-536

78. M.R. Pujol, J. Piedrafita, R. Quintanilla, **A. Reverter**, and J. Tibau (1998) Accounting for heterogeneous variances across herds for swine production traits using a multiplicative mixed model. Proc. 6th World Congr. Genet. Appl. Livest. Prod. 25:645-648

79. **A. Reverter** and B. Tier (1997) The role of different replacement regimes on the occurence of inbreeding in subsequent generations. Proc. Assoc. Advmt. Anim. Breed. Genet. 12:113-116

80. J.W. Skerrit, **A. Reverter**, C.J. Kaiser, and B. Tier (1997) Genetic parameter estimates for wool follicle traits are similar in selected and random bred populations. Proc. Assoc. Advmt. Anim. Breed. Genet. 12:163-166

81. **A. Reverter** and B. Tier (1997) How bootstrapping can optimise subsampling when estimating genetic parameters by Method R. Proc. Assoc. Advmt. Anim. Breed. Genet. 12:543-546

SERVICE TO SCIENTIFIC COMMUNITY

Invited seminars, conference talks and scientific committees:

1. June 2008: Invited keynote speaker at the XIV Reunión Nacional de Mejora Genética Animal, 19-21 June 2008, Seville, Spain.

2. Member of the Organising Committee and Chair (Functional Genomics session) of the 3rd International Symposium on Animal Functional Genomics, April 2008, Edinburgh, UK.

3. September 2007: Invited Speaker at the 17th Conference of the Association for the Advancement of Animal Breeding and Genetics (Armidale, NSW, Australia; http://www.aaabg.org).

4. 25 – 29 June, 2007: Invitation to lecture at the 2007 Winter School in Mathematical and Computational Biology hosted by the ARC Centre in Bioinformatics and the Institute for Molecular Bioscience (http://bioinformatics.org.au/ws07/index.html).

5. 19-October-2006: Invited seminar at Mathematics and Computing, University of Southern Queensland, Toowoomba (http://www.sci.usq.edu.au/research/seminars/?seminarID=120)

6. September 2006: Invitation to lecture a 1-week graduate course entitled “Statistical analysis of microarrays” at the Universitat Autonoma de Barcelona, Spain. Full details at http://www.icrea.es/pag.asp?id=Miguel.Perez, click on “2006 Course: Microarray analysis” link.

7. 22-September-2006: Invitation by Dr. Jesús Piedrafita, Head of Animal and Food Science Department, Universitat Autonoma de Barcelona (http://antalya.uab.es/cruiz/index.html) to present a general CSIRO Livestock Industries talk at their "Scienfic Session".
8. August 2006: Invited talk at the 8th World Congress on Genetics Applied to Livestock Production, Belo Horizonte, Brazil (http://www.wcgalp8.org.br).
9. 28-July-2006: Invited talk at the SNP Genotyping Workshop organized by the AGRF in conjunction with Sequenom, Millenium Science and Affymetrix (http://www.agrf.org.au).
10. 26 – 30 June, 2006: Invitation to lecture at the 2006 Winter School in Mathematical and Computational Biology (http://bioinformatics.org.au/ws06/index.html; Queensland Bioscience Precinct) hosted by the ARC Centre in Bioinformatics and the Institute for Molecular Bioscience.
11. February 2006: Invitation to lecture a 1-week graduate course entitled "A quantitative overview to gene expression profiling in animal breeding" at the Armidale Animal Breeding Summer Courses. The University of New England, Armidale, NSW, Australia (http://www-personal.une.edu.au/~jvanderw/aabcwint.htm).
12. Member of the Organising Committee for Horizons in Livestock Sciences Conference. October 2006, Gold Coast, Queensland, Australia (http://www.livestockhorizons.com/).
13. Member of the Organising Committee and Chairperson of the Scientific Program Committee of the 16th Conference of the Association for the Advancement of Animal Breeding and Genetics (http://www.aaabg.org).
14. Member of the Organising committee and Chair (Bioinformatics and Data Mining section) of the 2nd International Symposium on Animal Functional Genomics, May 2006, Michigan, USA (http://isafg.msu.edu/secondisafg.html)
15. September 2005: Invited Speaker at the 16th Conference of the Association for the Advancement of Animal Breeding and Genetics (Noosa, Queensland, Australia; http://www.aaabg.org).
16. July 2004: Invited talk at "Applied Quantitative Genetics in a Genomics World" workshop, QDPI&F, Bribie Island, Queensland.
17. April 2004: Invited seminar at the Australian Statistical Society ordinary monthly meeting (http://www.statsoc.org.au/branches/QLD/talks_2004/talk20040406.html).
18. May 2003: Invited seminar at College of Biological Sciences, University of California Davis, CA, USA. Details at http://www.dbs.ucdavis.edu/seminars/SearchDetails.cfm?id=5989
19. May 2003: Invited seminar at Michigan State University, East Lansing, MI, USA, May 2003.
20. October 2003: Coordinator "Design and Analysis of Microarray Gene Expression Experiments" course. CSIRO Livestock Industries, Queensland Bioscience Precinct, Brisbane, Australia. (http://www.livestockgenomics.csiro.au/courses/rosacourse/)
21. September 2000: Coordinator "FORTRAN 90 Programming Techniques in Animal Breeding" course by Ignacy Misztal from University of Georgia, Athens, USA. Course presented at The University of New England, Armidale, NSW, Australia.
22. January 1998: Coordinator "Introduction to MCMC Methods" course by Daniel Sorensen, Danish Institute of Agricultural Sciences, Tjele, Denmark. Course presented at The University of New England, Armidale, NSW, Australia.