

# Publications List

## 2010



### Books

1. Byrne B (2010). Reading and reading acquisition. Encyclopedia of Library and Information Sciences. T. Francis. New York, NY, Taylor & Francis. pp 4404-4413.
2. Byrne B, Khlentzos D, Olson RK and Samuelsson S (2010). Evolutionary and genetic perspectives on educational attainment. International handbook of psychology in education. K. Littleton, C. Wood and J. K. Staarman. Bingley, UK, Emerald Press. pp 3-33.
3. Schäche M, Baird PN (2010). Twin Studies and Myopia. Myopia: Animal Models to Clinical Trials. Eds: Roger Beuerman, Saw Seang Mei, Donald Tan, Wong Tien Yin. World Scientific Publishing. pp 183- 199.

### Peer-reviewed articles

1. Baird PN, Schäche M, Dirani M. (2010). The GENes in Myopia (GEM) study in understanding the aetiology of refractive errors. *Prog Retin Eye Res* **29**(6): 520-542.
2. Bates TC, Lind PA, Luciano M, Montgomery GW, Martin NG, Wright MJ. (2010) Dyslexia and DYX1C1: deficits in reading and spelling associated with a missense mutation. *Mol Psychiatry* **15**(12): 1190-1196.
3. Bockmann MR, Hughes TE, Townsend GC. (2010). Genetic modeling of primary tooth emergence: a study of Australian twins. *Twin Res Hum Genet* **13**(6): 573-581.
4. Byrne B, Coventry WL, Olson RK, Wadsworth SJ, Samuelsson S, Petrill S, Willcut EG, Corley R. (2010). "Teacher effects" in early literacy development: Evidence from a study of twins. *J Educ Psychol* **102**(1): 32-42.
5. Carbonaro F, Andrew T, Mackey DA, Spector TD, Hammond CJ. (2010). Comparison of three methods of intraocular pressure measurement and their relation to central corneal thickness. *Eye (Lond)* **24**(7): 1165-1170.
6. Cobb JE, Zaloumis SG, Scurrah KJ, Harrap SB, Ellis JA. (2010). Evidence for two independent functional variants for androgenetic alopecia around the androgen receptor gene. *Exp Dermatol* **19**(11): 1026-1028.
7. Crompton DE, Scheffer IE, Taylor I, Cook M, McKelvie PA, Vears DF, Lawrence KM, McMahon JM, Grinton BE, McIntosh AM and Berkovic SF. Familial mesial temporal lobe epilepsy: a benign epilepsy syndrome showing complex inheritance. *Brain* 2010; **133**(11): 3221-3231.

8. Dirani M, Schache M, Baird PN. (2010). Discordant refraction in male monozygotic twins. *J Pediatr Ophthalmol Strabismus* **47**: e1-2.
9. Ebejer J, Coventry WL, Byrne B, Willcut EG, Olson RK, Corley R, Samuelsson S. (2010). Genetic and environmental influences on inattention, hyperactivity-impulsivity, and reading: Kindergarten to Grade 2. *Scientific Studies of Reading* **14**(4): 293 - 316.
10. Ellis JA, Lamantia A, Chavez R, Scurrah KJ, Nichols CG, Harrap SB. (2010). Genes controlling postural changes in blood pressure: comprehensive association analysis of ATP-sensitive potassium channel genes KCNJ8 and ABCC9. *Physiol Genomics* **40**(3): 184-188.
11. Hasegawa Y, Rogers J, Scriven G, Townsend GC. (2010). Carabelli Trait in Australian Twins: Reliability and Validity of Different Scoring Systems. *Dental Anthropol* **23**(1): 7-15.
12. Haworth CM, Wright MJ, Luciano M, Martin NG, de Geus EJ, van Beijsterveldt CE, Bartels M, Posthuma D, Boomsma DI, Davis OS, Kovas Y, Corley RP, Defries JC, Hewitt JK, Olson RK, Rhea SA, Wadsworth SJ, Iacono WG, McGue M, Thompson LA, Hart SA, Petrill SA, Lubinski D, Plomin R. (2010). The heritability of general cognitive ability increases linearly from childhood to young adulthood. *Mol Psychiatry* **15**(11): 1112-1120.
13. Hysi PG, Young TL, Mackey DA, Andrew T, Fernandez-Medarde A, Solouki AM, Hewitt AW, Macgregor S, Vingerling JR, Li YJ, Ikram MK, Fai LY, Sham PC, Manes L, Porteros A, Lopes MC, Carbonaro F, Fahy SJ, Martin NG, van Duijn CM, Spector TD, Rahi JS, Santos E, Klaver CC, Hammond CJ. (2010). A genome-wide association study for myopia and refractive error identifies a susceptibility locus at 15q25. *Nat Genet* **42**(10): 902-905.
14. Lee T, Henry JD, Trollor JN, Sachdev PS. (2010). Genetic influences on cognitive functions in the elderly: a selective review of twin studies. *Brain Res Rev* **64**(1): 1-13.
15. Lind P, Luciano M, Wright MJ, Montgomery GW, Martin NG, Bates TC. (2010). Dyslexia and DCDC2: Normal variation in reading and spelling is associated with DCDC2 polymorphisms in an Australian population sample. *Eur J Human Genetics* **18**(6): 668-673.
16. Macgregor S, Hewitt AW, Hysi PG, Ruddle JB, Medland SE, Henders AK, Gordon SD, Andrew T, McEvoy B, Sanfilippo PG, Carbonaro F, Tah V, Li YJ, Bennett SL, Craig JE, Montgomery GW, Tran-Viet KN, Brown NL, Spector TD, Martin NG, Young TL, Hammond CJ, Mackey DA. (2010). Genome-wide association identifies ATOH7 as a major gene determining human optic disc size. *Hum Mol Genet* **19**(13): 2716-2724.
17. Miller SM, Hansell NK, Ngo TT, Liu GB, Pettigrew JD, Martin NG, Wright MJ. (2010). Genetic contribution to individual variation in binocular rivalry rate. *Proc Natl Acad Sci U S A.* **107**(6): 2664-2668.
18. Nelson EC, Lynskey MT, Heath AC, Madden PA, Martin NG. (2010). A family study of adult twins with and without a history of childhood abuse: stability of retrospective

- reports of maltreatment and associated family measures. *Twin Res Hum Genet* **13**(2): 121-130.
19. Odefrey F, Stone J, Gurrin LC, Byrnes GB, Apicella C, Dite GS, Cawson JN, Giles GG, Treloar SA, English DR, Hopper JL, Southey MC; Australian Twins and Sisters Mammographic Density Study. (2010). Common genetic variants associated with breast cancer and mammographic density measures that predict disease. *Cancer Res* **70**(4):1449-1458.
  20. Pearsall-Jones JG., Piek JP, Levy F. (2010). Etiological pathways for developmental coordination disorder and attention-deficit/hyperactivity disorder: shared or discrete? *Exp Rev Neurother* **10**(4): 491-494.
  21. Pell GS, Briellmann RS, Lawrence KM, Glencross D, Berkovic SF, Jackson GD. Reduced variance in monozygotic twins for multiple MR parameters: Implications for disease studies and the genetic basis of brain structure. *Neuroimage* 2010; **49**: 1536-1544.
  22. Petty SJ, Hill KD, Haber NE, Paton LM, Lawrence KM, Berkovic SF, Seibel MJ, O'Brien TJ and Wark JD. Balance impairment in chronic antiepileptic drug users: a twin and sibling study. *Epilepsia* 2010; **51**(2): 280-288.
  23. Rizzi TS, Arias-Vasquez A, Rommelse N, Kuntsi J, Anney R, Asherson P, Buitelaar J, Banaschewski T, Ebstein R, Ruano D, Van der Sluis S, Markunas CA, Garrett ME, Ashley-Koch AE, Kollins SH, Anastopoulos AD, Hansell NK, Wright MJ, Montgomery GW, Martin NG, Harris SE, Davies G, Tenesa A, Porteous DJ, Starr JM, Deary IJ, St Pourcain B, Smith GD, Timpson NJ, Evans DM, Gill M, Miranda A, Mulas F, Oades RD, Roeyers H, Rothenberger A, Sergeant J, Sonuga-Barke E, Steinhausen HC, Taylor E, Faraone SV, Franke B, Posthuma D. (2010) The ATXN1 and TRIM31 Genes Are Related to Intelligence in an ADHD Background: Evidence From a Large Collaborative Study Totalling 4,963 Subjects. *Am J Med Genet B Neuropsychiatr Genet*. Epub ahead of print 2010 Dec 16.
  24. Sartor CE, Grant JD, Bucholz KK, Madden PA, Heath AC, Agrawal A, Whitfield JB, Statham DJ, Martin NG, Lynskey MT. (2010). Common genetic contributions to alcohol and cannabis use and dependence symptomatology. *Alcohol Clin Exp Res* **34**(3): 545-554.
  25. Smit DJ, Luciano M, Bartels M, van Beijsterveldt CE, Wright MJ, Hansell NK, Brunner HG, Estourgie-van Burk GF, de Geus EJ, Martin NG, Boomsma DI. (2010). Heritability of head size in Dutch and Australian twin families at ages 0-50 years. *Twin Res Hum Genet* **13**(4):370-380.
  26. Solouki AM, Verhoeven VJ, van Duijn CM, Verkerk AJ, Ikram MK, Hysi PG, Despriet DD, van Koolwijk LM, Ho L, Ramdas WD, Czudowska M, Kuijpers RW, Amin N, Struchalin M, Aulchenko YS, van Rij G, Riemsdijk FC, Young TL, Mackey DA, Spector TD, Gorgels TG, Willemse-Assink JJ, Isaacs A, Kramer R, Swagemakers SM, Bergen AA, van Oosterhout AA, Oostra BA, Rivadeneira F, Uitterlinden AG, Hofman A, de Jong PT, Hammond CJ, Vingerling JR, Klaver CC. (2010). A genome-wide association study identifies a susceptibility locus for refractive errors and myopia at 15q14. *Nat Genet* **42**(10): 897-901.

27. Stone J, Gurrin LC, Hayes VM, Southey MC, Hopper JL, Byrnes GB. (2010). Sibship analysis of associations between SNP haplotypes and a continuous trait with application to mammographic density. *Genet Epidemiol* **34**(4):309-318.
28. Sun C, Ponsonby AL, Brown SA, Kearns LS, Mackinnon JR, Barbour JM, Ruddle JB, Hewitt AW, Wright MJ, Martin NG, Dwyer T, Mackey DA. (2010). Associations of birth weight with ocular biometry, refraction, and glaucomatous endophenotypes: the Australian Twins Eye Study. *Am J Ophthalmol* **150**(6): 909-916.
29. Tabrizi SN, Taylor N, McCullough MJ, Phillips G, Wark J, Gertig D, Petersen RW, Saville M, Garland SM. (2010). Human papillomavirus genotype detection from archival papanicolaou-stained cervical tests. *Cancer Cytopathol* **118**(6): 482-489.
30. Taji SS, Seow WK, Townsend GC, Holcombe T. (2010). A controlled study of dental erosion in 2- to 4-year-old twins. *Int J Paediatr Dent* **20**(6): 400-409.
31. Tang L, Scheetz TE, Mackey DA, Hewitt AW, Fingert JH, Kwon YH, Queller G, Reinhardt JM, Abramoff MD. (2010). Automated quantification of inherited phenotypes from color images: a twin study of the variability of optic nerve head shape. *Invest Ophthalmol Vis Sci* **51**(11): 5870-5877.
32. Vadlamudi L, Dibbens L, Lawrence KM, Iona X, McMahon JM, Murrell W, Mackay-Sim A, Scheffer IE and Berkovic SF. Timing of De Novo Mutagenesis – A Twin Study of Sodium-Channel Mutations. *N Engl J Med* 2010; **363**: 1335-1340.
33. Sanfilippo PG, Hewitt AW, Hammond CJ, Mackey DA. (2010). The heritability of ocular traits. *Surv Ophthalmol* **55**(6): 561-583.
34. Verweij KJ, Zietsch BP, Lynskey MT, Medland SE, Neale MC, Martin NG, Boomsma DI, Vink JM. (2010). Genetic and environmental influences on cannabis use initiation and problematic use: a meta-analysis of twin studies. *Addiction* **105**(3): 417-430.
35. Wilmer J, Germine L, Loken E, Guo X, Chatterjee G, Nakayama K, Williams M, Chabris C, Duchaine B. (2010). Response to Thomas: Is human face recognition ability entirely genetic? *Proc Natl Acad Sci U S A* **107**(24): E101.
36. Wilmer JB, Germine L, Chabris CF, Chatterjee G, Williams M, Loken E, Nakayama K, Duchaine B. (2010). Human face recognition ability is specific and highly heritable. *Proc Natl Acad Sci U S A* **107**(11): 5238-5241.
37. Woodroffe S, Mihailidis S, Hughes T, Bockmann M, Seow WK, Gotjamanos T, Townsend G. (2010). Primary tooth emergence in Australian children: timing, sequence and patterns of asymmetry. *Aust Dent J* **55**(3): 245-251.

## Published abstracts

1. Bjørnerem A, Ghasem-Zadeh A, Bui M, Wang XF, Rantza C, Nguyen TV, Hopper JL, Seeman E. (2010). Bone's Structural Design Determines Its Own Decay. *Osteoporos Int* 21(Suppl 1): 117.
2. Champion D, Flynn C, Taylor M, Jaaniste T. (2010) Growing pains shares genetic determinants with restless legs syndrome. *Twin Res Hum Genet* 13(3): 250.
3. Lee T, Sachdev P, et al. (2010). Genetic influence on four measures of processing speed: The Older Australian Twins Study. *Twin Res Hum Genet* 13(3): 271-272.
4. Makovey J, Macara M, Chen JS, Sambrook PN. (2010). Effects of age, menopause, and body composition measures on arterial stiffness and bone mineral density in a middle aged population. *Osteoporos Int* 21(Suppl 1): 218.
5. Makovey J, Macara M, Sambrook PN. (2010). Relationship between bone mineral density and vascular calcification. *Osteoporos Int* 21(Suppl 1): 219.
6. Wilmer J, Germine L, Chabris C, Chatterjee G, Williams M, Nakayama K, Duchaine B. (2010). "A genetic basis for face memory: evidence from twins." *J Vision* 10(7): 563.

## Conference posters

1. Hughes T, Townsend G, et al. (2010). *Variability in dental arch dimensions: longitudinal data from Australian twins*. 88th General Session, International Association for Dental Research, Barcelona, Spain.
2. Hughes T, Vo J, Townsend G, et al. (2010). *Twin studies of dental crown morphology: genetic, epigenetic and environmental determinants*. 35<sup>th</sup> annual meeting of the Human Biology Association Symposium "Anthropological Perspectives on Tooth Morphology: Genetics, Evolution, Variation", Albuquerque, New Mexico.
3. Kearns LS, Hewitt AW, Ruddle JB, Bigault O, Staffieri SE, Sanfillipo P, Martin NG, Hammond CJ, Young TL, Mackey DA. *Up to What Age is a Cyclopleged Refraction Required? Results From the Twins Eye Study Tasmania (TEST) With Interpupillary Distance*. ARVO May 2010. Poster: 1716/A173.
4. Lahdesmaki R, Townsend G. (2010). *Predicting the development of dental occlusion: a genetic study of Australian twins presentation type*. 7th International Orthodontic Congress, Sydney, Australia.
5. Lee, T., Sachdev, P., et al. (2010). Genetic influence on four measures of processing speed: The Older Australian Twins Study. 13th International Congress on Twin Studies, Seoul, South Korea.
6. Odeh R, Townsend G, et al. (2010). *Genetic and environmental causes of variation in expression of infraoccluded primary teeth in twins and singletons*. Colgate Australia Clinical Dental Research Centre Research Day, Adelaide.

7. Ribeiro D, Sampson WJ, Townsend G, et al. (2010). *Are dental crown dimensions altered in opposite-sex dizygotic twin pairs, reflecting possible hormone diffusion in utero?* 7th International Orthodontic Congress, Sydney, Australia.
8. Ribeiro D, Sampson WJ, Townsend G, et al. (2010). *Is there any evidence of pre-natal hormonal influences on tooth size in opposite-sex dizygotic twins?* Colgate Australia Clinical Dental Research Centre Research Day, Adelaide.
9. Staffieri SE, Ruddle JB, Hewitt AW, Kearns LS, Sanfilippo PG, MacGregor S, Martin NG, Young TL, Hammond CJ, Mackey DA. *Genome Wide Analysis Identifies Putative Loci Associated With Interpupillary Distance*. Association for Research in Vision and Ophthalmology (ARVO) May 2010, Fort Lauderdale, Florida, USA. Poster:1649/A25.
10. Tabrizi SN, Austin N, McCullough M, Phillips G, Wark J, Petersen R, Garland SM. *Human papillomavirus genotype detection from archival Papanicolaou-stained cervical smears*. 26<sup>th</sup> International papillomavirus and Clinical Workshop. Montreal, Canada 3-8 July 2010.
11. Taji SS, Seow WK, Townsend G, et al. (2010). *A controlled study of enamel hypoplasia in twins*. 88<sup>th</sup> General Session, International Association for Dental Research, Barcelona, Spain.
12. Townsend G. (2010). *Nature via nurture: genetic epigenetic and environmental contributions to dentofacial variation in twins*. University of Malaya, Department of Oral Biology, Kuala Lumpur, Malaysia.
13. Wood A, Chen J, Phan T, Cooper K, Litras S, Srikanth V. *FMRI study of memory performance in Type 2 Diabetes: A twin Study*. (2010) Poster presented at the International Society of Magnetic Resonance in Medicine meeting, Stockholm, Sweden.

## Other

### Media, Press

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|--------------|---|
| Feb 3 -2010  | Herald Sun - Gene disrupts vision. <b>Paul Baird</b>                                      |
| Feb 3 – 2010 | Adelaide Advertiser – All eyes on gene discovery. <b>Paul Baird</b>                       |
| Feb 3 – 2010 | Daily Examiner - Scientists pinpoint genetic cause of long-sightedness. <b>Paul Baird</b> |
| Feb 3 – 2010 | Daily News - Scientists pinpoint genetic cause of long-sightedness. <b>Paul Baird</b>     |
| Feb 3 – 2010 | Hobart Mercury - New hope on sight loss. <b>Paul Baird</b>                                |
| Feb 3 – 2010 | Newcastle Herald - Researchers take the long view. <b>Paul Baird</b>                      |

**Garland SM.** *Doubling efforts to fight cervical cancer*. Australian Twin Registry Newsletter, Twins 2010, page 1-2.

**Townsend G.** (2010). *Genes, teeth and faces: studying twins is twice as fun!* International Medical University, Kuala Lumpur, Malaysia.

### **Radio**

- 2 Feb 2010 ABC 666 Canberra, Discovery of 'long-sighted' gene a world first. **Paul Baird**
- 2 Feb 2010 2CC (Canberra). Discovery of 'long-sighted' gene a world first. **Paul Baird**
- 3 Feb 2010 National News Radio. Discovery of 'long-sighted' gene a world first. **Paul Baird**
- 3 Feb 2010 ABC News Radio Discovery of 'long-sighted' gene a world first. **Paul Baird**

### **TV**

- 2 Feb 2010 **Paul Baird**. National Nine News. *Refractive error*.
- September 2010 **Mackey DA**. ABC AM. *Short-sightedness may be genetic*.  
<http://www.abc.net.au/am/content/2010/s3009740.htm>

### **Online**

#### **Paul Baird**

- Jan-14-2010 ABC Online. Comment on "bifocal approach may reduce myopia"
- Jan-14-2010 CBC, Canada. Comment on "bifocal approach may reduce myopia"
- 2 Feb 2010 Businessweek.com. Scientists identify farsightedness gene
- 2 Feb 2010 Calgary Herald.com. Researchers eye drug cure for long-sightedness
- 2 Feb 2010 Domain-B.com. Australian researchers identify gene that causes long-sightedness
- 2 Feb 2010 CA.News.Yahoo.com. Researchers eye drug cure for long-sightedness
- 2 Feb 2010 Canada.com. Researchers eye drug cure for long-sightedness
- 3 Feb 2010 Ninemsn.com. Gene to blame for long-sightedness
- 3 Feb 2010 AU.News.Yahoo.com. Gene to blame for long-sightedness
- 3 Feb 2010 Sydney Morning Herald online. Gene to blame for long-sightedness
- 3 Feb 2010 The Times of India online. Gene to blame for long-sightedness
- 3 Feb 2010 Sydney Morning Herald online. Researchers eye drug cure for long-sightedness
- 3 Feb 2010 AU.News.Yahoo.com. Researchers eye drug cure for long-sightedness
- 3 Feb 2010 medindia.net. Drug Cure for Long-sightedness may Soon be Possible: Researchers
- 3 Feb 2010 saudigazette.com. Drug cure for long-sightedness?
- 3 Feb 2010 independent.co.uk. Australian researchers discover eye drug cure for long-sightedness
- 3 Feb 2010 iol.co.za. Cure for long-sightedness
- 3 Feb 2010 bangkokpost.com. Researchers eye drug cure for long-sightedness
- 3 Feb 2010 theprovince.com. Researchers eye drug cure for long-sightedness

#### **Mackey DA**

- Nov 2010 MiVision. Twin Study Latest. <http://www.mivision.com.au/twins-study-unlocking-eye-disease/>