

Publications List

2014



BOOK CHAPTERS

Hughes, T., M. Bockmann, et al. (2014/2015). An Overview of Dental Genetics. In: A Companion to Dental Anthropology. J. Irish, R. Scott, J. W. S. Inc and N. Hoboken.

Townsend, G., A. Brook, et al. (2014/15). Tooth classes, field concepts, and symmetry. A Companion to Dental Anthropology. J. Irish, R. Scott, J. W. S. Inc and N. Hoboken.

CONFERENCE PUBLICATIONS

Brook, A. (December 2014). Enhancing interpretation: exploring the dentition as a complex adaptive System increases understanding of the outcomes of genetic/epigenetic/environmental interactions during dental development. Australasian Society for Human Biology, 28th Annual Conference, South Australia.

Burton, K. (2014). The genetic and environmental contributors to processing emotions and their connections to depression and anxiety: A twin study. Social and Emotional Neuroscience Extravaganza, Brain Sciences, University of NSW, Sydney.

Gatt, J. (2014). Resilience and wellbeing: The role of genetics and impact on the brain in a study of twins. Biological Psychiatry Symposium: Cross disorder effects of stress and trauma: Implications for resilience, Melbourne.

Haryono, R. and Keast, R. (2014). Fatty food liking in monozygotic and dizygotic twin pairs. EuroSense 2014: Sixth European Conference on Sensory and Consumer Research, Copenhagen, Denmark.

Hughes, T. (2014). Tooth emergence and dental caries. Healthier Kids: Insights from twin research, Royal Children's Hospital, Melbourne.

Korgaonkar, M. (2014). Heritability of neural structure and connectivity changes across the adult lifespan – results from the TWIN-E study. 11th Annual Congress of Society for Brain Mapping & Therapeutics, Sydney.

Mackey, D. (2014). Twin studies of Strabismus. Annual Squint Club Meeting, Sydney.

Mather, K., Thalamuthu, A., Oldmeadow, C., Song, F., Armstrong, N., Poljak, A. ... Sachdev, P. (2014). Genome-wide significant results identified for plasma apolipoprotein H levels (Poster). Alzheimer's Association International Conference, Copenhagen, Denmark.

Tan, Y. T. (2014). Investigating the environmental influences underpinning singing ability using a twin survey. 37th National Conference of the Musicological Society of Australia, Australia.

Tan, Y. T. (2014). Let's Hear Twins Sing. Australian Twin Registry's Healthier Kids Conference, Melbourne.

Townsend, G., Mihailidis, S., Odeh, R., Lahdesmaki, R., Hughes, T., and Brook, A. (2014). Infraocclusion: clinical features and associated anomalies in singletons and twins. 54th

Annual Scientific Meeting of the International Association for Dental Research Australian & New Zealand Division, Brisbane Convention & Exhibition Centre Brisbane, Australia.

Townsend, G. (2014). The causes of variation in the face and teeth: genetic, epigenetic and environmental influences. Universiti Kebangsaan, Malaysia.

Townsend, G. (2014). Enhancing the value of studies of the teeth in anthropology. Australasian Society for Human Biology, 28th Annual Conference, Glenelg.

Waller, D., Townsend, G., Milhailidis, S., Hughes, T., and Bockmann, M. (2014). Patterns in the sequence of primary tooth emergence. Australasian Society for Human Biology, 28th Annual Conference, Glenelg.

Wen, W., Mather, K., Thalamuthu, A., Zhu, W., Jiang, J., and Sachdev, P. (2014). Heritability and lateralized genetic influence on brain structures in a population over 65. Organisation for Human Brain Mapping Conference, (Poster), Germany.

Yong, R., Townsend, G., Ranjitkar, S., Lam, F., Hughes, T., and Brook, A. (December 2014). The effects of the Y chromosome and intrauterine male hormones on human tooth size and shape. Australasian Society for Human Biology, 28th Annual Conference, Glenelg.

Yong, R., Townsend, G., Ranjitkar, S., Loftus, W., and Brook, A. (2014). 3D techniques in dental phenomics: new opportunities for physical anthropology. Australasian Society for Human Biology, 28th Annual Conference, Glenelg.

JOURNAL ARTICLES

Lee, T. and Sachdev, P. (2014). "The contributions of twin studies to the understanding of brain ageing and neurocognitive disorders." *Current Opinion in Psychiatry*, **27**(2): 122-127.

Klein, K. and Berkovic, S. (2014). "Genetics of vasovagal syncope." *Autonomic Neuroscience: Basic and Clinical*, (184): 60-65.

Refshauge, K., Maher, C., Junqueira, G., Hubscher, M., Hopper, J., Ferreira, P., Ferreira, M., and Daniela, J. (2014). "Heavy domestic, but not recreational, physical activity is associated with low back pain: Australian Twin low BACK pain (AUTBACK) study." *European Spine Journal*, **23**(10): 2083-2089.

Reiersen, A., Lynskey, M., Martin, N., Henders, A., De Alwis, D., Constantino, J., and Agrawal, A. (2014). "ADHD symptoms, autistic traits, and substance use and misuse in adult Australian twins." *Journal of Studies on Alcohol and Drugs*, **75**: 211-221.

Richmond-Rakerd, L., Slutske, W., Martin, N., and Heath, A. (2014). "Genetic and Environmental Influences on the Ages of Drinking and Gambling Initiation: Evidence for Distinct Etiologies and Sex Differences." *Addiction (Abingdon, England)*, **109**(2): 323-331.

Samuelsson, S., Olson, R., Keenan, J., and Byrne, B. (2014). "Why do children differ in their development of reading and related skills?" *Scientific Studies of Reading*, **18**: 38-54.

Slutske, W., Martin, N., Madden, P., Heath, A., and Deutsch, A. (2014). "Substance Use and Sexual Intercourse Onsets in Adolescence: A Genetically Informative Discordant Twin Design." *The Journal of adolescent health*, **54**(1): 114-116.

Sumathipala, A., Sung, J., Kaprio, J., Hopper, J., Harris, J., Goldberg, J. ... Buchwald, D. (2014). "International Network of Twin Registries (INTR): Building a Platform for International Collaboration." *Twin Research and Human Genetics*, **0**(0): 1-4.

- Townsend, G. and Brook, A. (2014). The face, the future, and dental practice: how research in craniofacial biology will influence patient care. *Australian Dental Journal Special Supplement*, **59**(1).
- Townsend, G., Kaidonis, J., James, H., Hughes, T., and Ashar, A. (Dec 2014). "The individuality of the human dentition: implications for forensic odontology." *Australian Dental Journal*, **59**(4): S6.
- Townsend, G., Smith, R., Hughes, T., Jernvall, J., and Brook, A. (2014). "The dentition: the outcomes of morphogenesis leading to variations of tooth number, size and shape." *Australian Dental Journal*, **59**(1): 131-142. DOI: 10.1111/adj.12160.
- Townsend, G., Matsuno, M., and Kondo, S. (Nov 2014). "Morphological variation of the maxillary lateral incisor." *Japanese Dental Science Review*, **50**, 100-107. DOI: 10.1016/j.jdsr.2014.06.002.
- Townsend, G., Seow, W., and Ooi, G. (2014). "Bacterial colonization, enamel defects and dental caries in 4-6 year-old Australian twins." *International Journal of Paediatric Dentistry*, **24**(2): 152-160.
- Townsend, G., Smith, R., O'Donnell, M., Hughes, T., Hone, A., Hart, E., and Brook, A. (2014). "General and craniofacial development are complex adaptive processes influenced by diversity." *Australian Dental Journal*, Jun(59 Suppl 1): 13-22.
- Vadlamudi, L., Torn-Broers, Y., Scheffer, I., Mulley, J., Milne, R., Lawrence, K. ... Berkovic SF. (2014). "Genetics of epilepsy: The testimony of twins in the molecular era." *2014 American Academy of Neurology*, **83**(12): 1042-1048.
- Vadlamudi, L., Torn-Broers, Y., Scheffer, I., Mulley, J., Milne, R., Lawrence, K. ... Berkovic SF. (2014). "Genetics of epilepsy: The testimony of twins in the molecular era." *Neurology*, **83**: 1-7.
- van Daal, V., Ellis, E., Anton-Méndez, I., Coventry, W., and Byrne, B. (2014). "Markers of success: A study of twins' instructed second language acquisition." *Learning and Individual Differences*.
- Wade, T. and Fairweather-Schmidt, A. (2014). "DSM-5 eating disorders and other specified eating and feeding disorders: Is there a meaningful differentiation?" *International Journal of Eating Disorders*, **47**(5): 524-533.
- Wark, J., Sambrook, P., Petty, S., O'Brien, T., Makovey, J., Lawrence, K., and Berkovic, S. (2014). "Weight and fat distribution in patients taking valproate: a valproate-discordant gender-matched twin and sibling pair study." *Epilepsia*, **55**(10): 1551-1557.
- Wen W., Trollor J., Sachdev P., and Batouli, S. (2014). "The heritability of volumes of brain structures and its relationship to age: a review of twin and family studies." *Ageing Res Rev*, **13**(1): 1-9.
- Williams, L., Korgaonkar, M., Ram, K., Grieve, S., and Gatt, J. (2014). "Establishing the resting state default mode network derived from functional magnetic resonance imaging tasks as an endophenotype: A twins study." *Human Brain Mapping*, **35**(6).
- Williams, L., Korgaonkar, M., Ram, K., Grieve, S., and Gatt, J. (2014). "Genetic control of resting state default mode network derived from fMRI tasks." *Human Brain Mapping* **35**: 3893-3902.
- Williams, L., Schofield, P., Gatt, J., Burton, K., and Bryant, R. (2014). "The heritability of mental health and wellbeing defined using COMPAS-W, a new composite measure of wellbeing." *Psychiatry Research*, **219**(1): 204-213.

Williams, S., Townsend, G., Hughes, T., Brook, A., and Adler, C. (June 2014). "Epigenetics: a new frontier in dentistry." *Australian Dental Journal*, **59** (1): 23-33.

Wright, M., Thalamuthu, A., Song, F., Sachdev, P., Poljak, A., Mather, K. ... Ames, D. (2014) "DNA Methylation in the Apolipoprotein-A1 Gene is Associated with Episodic Memory Performance in Healthy Older Individuals." *Journal of Alzheimer's Disease*. DOI: 10.3233/JAD-141314

Wright, M., Wen W., Trollor J., Sachdev P., Batouli, S., and Ames, D. (2014). "Heritability of brain volumes in older adults: the Older Australian Twins Study." *Neurobiology of Aging*, **35**(4): 937.e935-937.e918.

Yong, R., Townsend, G., Ranjitkar, S., Lam, F., Hughes, T., and Brook, A. (Dec 2014). "The effects of the Y chromosome and intrauterine male hormones on human tooth size and shape." *Australian Dental Journal*, **59**(4): S33.

Yong, R., Townsend, G., Ranjitkar, S., Loftus, W., and Brook, A. (2014). "Dental Phenomics: advancing genotype to phenotype correlations in craniofacial research." *Australian Dental Journal*, **Jun**(59 Suppl 1): 34-47.

Zebaze, R., Wang, X., Seeman, E., Ghasem-Zadeh, A., Hopper, J., Bui, M., and Bjørnerem, A. (2014) Genetic and Environmental Variances of Bone Microarchitecture and Bone Remodeling Markers: A Twin Study. *J Bone Miner Res*, **Nov 18**. DOI: 10.1002/jbmr.2365.

Zhu, G., Wüst, S., Strohmaier, J., Rietschel, M., Rietschel, L., Martin, N., Kirschbaum, C. (2014). "Perceived Stress has Genetic Influences Distinct from Neuroticism and Depression." *Behavior Genetics*, **44**(6): 639-645.

Zhuang, L., Wright, M., Wen, W., Trollor, J., Thalamuthu, A., Schofield, P. ... Sachdev, P. (2014) "Genetics of microstructure of the corpus callosum in older adults." *PLoS ONE*. DOI: 10.1371/journal.pone.0113181

Zuhair, M., Wray, N., Verweij, K., Power, R., Montgomery, G., Medland, S. ... Heath, A. (2014). "Genetic predisposition to schizophrenia associated with increased use of cannabis." *Molecular Psychiatry*, **19**(11): 1201-1204.

OTHER PUBLICATIONS

Hopper, J. (2014). "Deep in Data." *International Innovation*, 26-29.

INTERNATIONAL, D. T. (March 10, 2014). "Genes will play more important role in future dentistry, study suggests." *DENTAL TRIBUNE INTERNATIONAL*.

IN PRESS

Hay, D. and Barton A. (*in press*). Attention-deficit/hyperactivity disorder and comorbid drug use. Responding to Co-occurring Mental Health and Drug Disorders. S. Allsop and W. Saunders. Perth, IP Communications.

Olson, R., Grasby, K., Corley, R., Byrne, B. (*in press*). "Validity of large-scale school reading tests: A phenotypic and behaviour-genetic analysis." *Australian Journal of Education*.

Refshauge, K., Maher, C., Junqueira, G., Hopper, J., Hancock, M., Gracas, M., ... Ferreira, M. (2014). "Heritability and lifestyle factors in chronic low back pain: results of the Australian Twin Low Back Pain Study (The AUTBACK study)." *European Journal of Pain*.

Wade, T. and A. O'Shea (in press, 12.5.14). "DSM-5 Unspecified Feeding and Eating Disorders in adolescents: What do they look like and are they clinically significant?" *International Journal of Eating Disorders*.

Yucel, M., Soriano-Mas, C., Pujol, J., Pantelis, C., Menchon, J., Lopez-Sola, C. ... Alonso, P. (2014). "Prevalence and heritability of obsessive-compulsive spectrum and anxiety disorder symptoms: A survey of the Australian Twin Registry (in press)." *American Journal of Medical Genetics: Neuropsychiatric Genetics*.

Zhu, G., Wüst, S., Strohmaier, J., Rietschel, M., Rietschel, L., Martin, N., Kirschbaum, C. (2014). "Perceived Stress has Genetic Influences Distinct from Neuroticism and Depression." *Behavior Genetics*, **44**(6): 639-645.