Dr. Ziarih Hawi
Psychology
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Biography

I am the lead of the functional genomics lab within the Turner Institute for Brain and Mental Health (School of Psychological Sciences) and a molecular geneticist with long experience in psychiatry/mental health research. The focus of my research has been the identification of susceptibility loci for attention deficit hyperactivity disorder (ADHD). Throughout my career in the field of psychiatric genetics, I have successfully identified risk loci (genes) for ADHD using the candidate approach (Hawi et al, 2002; Mol Psychiatry; Hawi et al, 2003; Mol Psychiatry; Sheehan et al 2005; Mol Psychiatry). More recently, I have mapped a novel locus for ADHD using the method of genome wide association (GWA) (Hawi et al, 2018; Translational Psychiatry). I have also published the first paper to apply whole exome sequencing to discover risk loci for ADHD (Hawi et al, 2017; Mol Psychiatry). As member of the ADHD subgroup of the Psychiatric Genetic Consortium (PGC) I have contributed to the identification of 12 novel risk loci for ADHD using GWAS, recently published in Nature Genetics (2019).

Since my relocation to the School of Psychological Sciences at Monash University (July 2012), I have been contributing to the development of genetic research projects by training staff from different groups including Huntington's disease, Sleep, Aging and Neurodegeneration, and cognitive control of action research, and have worked closely with my peers within the Turner Institute for Braun and mental Health. I have a strong record of successful HD students (Honours, MSc and Ph.D.) who I have supervised throughout my career. I have dedicated my life to research, discovery, teaching and will continue to do so.

Related Links:

Psych: Research Themes

Qualifications

Molecular Medical Genetics, PhD, Newcastle University (UK)

Biochemical Genetics, Masters, University of Strathclyde

Biology, Honours, University of Baghdad

Employment

Senior Research Fellow
Psychology
MONASH UNIVERSITY
3 Jul 2012 → present

Research outputs

The application of human pluripotent stem cells to model the neuronal and glial components of neurodevelopmental disorders
Lee, K. M., Hawi, Z. H., Parkington, H. C., Parish, C. L., Kumar, P. V., Polo, J. M., Bellgrove, M. A. & Tong, J., 27 Aug 2019, (Accepted/In press) In : Molecular Psychiatry. 11 p.

Intensity Matters: High-intensity Interval Exercise Enhances Motor Cortex Plasticity More Than Moderate Exercise
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Generation of four iPSC lines from peripheral blood mononuclear cells (PBMCs) of an attention deficit hyperactivity disorder (ADHD) individual and a healthy sibling in an Australia-Caucasian family
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Discovery of the first genome-wide significant risk loci for attention deficit/hyperactivity disorder
Demontis, D., Walters, R. K., Martin, J., Manuel, M., Als, T., Agerbo, E., Baldursson, G., Belliveau, R., Bybjerg-Grauholm, J., Bækvad-Hansen, M., Cerrato, F., Chambert, K., Churchhouse, C., Dumont, A., Eriksson, N., Gandal, M., Goldstein, J. I., Grasby, K. L., Grove, J., Gudmundsson, O. O. & 3 others, ADHD Working Group of the Psychiatric Genomics Consortium (PGC), Early Lifecourse & Genetic Epidemiology (EAGLE) Consortium & 23andMe Research Team, Jan 2019 , In : Nature Genetics. 51, 1, 16 p.

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A case-control genome-wide association study of ADHD discovers a novel association with the tenascin R (TNR) gene
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Genome-wide association study reveals novel genetic locus associated with intra-individual variability in response time
Pinar, A., Hawi, Z., Cummins, T., Johnson, B., Pauper, M., Tong, J., Tiego, J., Finlay, A., Klein, M., Franke, B., Fornito, A. & Bellgrove, M. A., 4 Oct 2018, In : Translational Psychiatry. 8, 1, 8 p., 207.

A Genetic Investigation of Sex Bias in the Prevalence of Attention-Deficit/Hyperactivity Disorder
Martin, J., Walters, R. K., Demontis, D., Mattheisen, M., Lee, S. H., Robinson, E., Brikell, I., Ghirardi, L., Larsson, H., Lichtenstein, P., Eriksson, N., 23andMe Research Team, Psychiatric Genomics Consortium: ADHD Subgroup, iPSYCH–Broad ADHD Workgroup, Werge, T., Mortensen, P. B., Pedersen, M. G., Mors, O., Nordentoft, M., Hougaard, D. M. & 8 others, Bybjerg-Grauholm, J., Wray, N. R., Franke, B., Faraone, S. V., O'Donovan, M. C., Thapar, A., Børglum, A. D. & Neale, B. M., 15 Jun 2018, In : Biological Psychiatry. 83, 12, p. 1044-1053 10 p.

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Trends in the Overlap of Autism Spectrum Disorder and Attention Deficit Hyperactivity Disorder: Prevalence, Clinical Management, Language and Genetics
May, T., Brignell, A., Hawi, Z., Brereton, A., Tonge, B., Bellgrove, M. A. & Rinehart, N., 17 Jan 2018, In : Current Developmental Disorders Reports. 5, 1, p. 49-57 9 p.

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Hawi, Z., Cummins, T. DR., Tong, J., Arcos-Burgos, M., Zhao, Q., Matthews, N., Newman, D. P., Johnson, B., Vance, A., Heussler, H. S., Levy, F., Easteal, S., Wray, N., Kenny, E., Morris, D., Kent, L., Gill, M. & Bellgrove, M. A., Apr 2017, In : Molecular Psychiatry. 22, p. 580-584 5 p.

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Genetically mediated resistance to distraction: Influence of dopamine transporter genotype on attentional selection
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The molecular genetic architecture of attention deficit hyperactivity disorder
Hawi, Z., Cummins, TDR., Tong, J., Johnson, B., Lau, R., Samarrai, W. & Bellgrove, MA., Mar 2015, In : Molecular Psychiatry. 20, 3, p. 289-297 9 p.

An association between a dopamine transporter gene (SLC6A3) haplotype and ADHD symptom measures in nonclinical adults
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Tong, J. H. S., McKinley, L-A., Cummins, T., Johnson, B. P., Matthews, N. L., Vance, A. L. A., Heussler, H. S., Gill, M., Kent, L. S. W., Bellgrove, M. A. & Hawi, Z., 2015, In : World Journal of Biological Psychiatry. 16, 8, p. 610 - 618 9 p.

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Newman, D. P., Cummins, T., Tong, J. H. S., Johnson, B. P., Pickering, H., Fanning, P., Wagner, J., Goodrich, J. T. T., Hawi, Z., Chambers, C. D. & Bellgrove, M. A., 2014, In : Journal of Neuroscience. 34, 47, p. 15743 - 15750 8 p.

Neurodevelopmental and neuropsychiatric disorders represent an interconnected molecular system
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A high density linkage disequilibrium mapping in 14 noradrenergic genes: evidence of association between SLC6A2, ADRA1B and ADHD
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Dopamine transporter genotype predicts behavioural and neural measures of response inhibition
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Williams, N. M. A., Franke, B., Mick, E. O., Anney, R. J., Freitag, C. M., Gill, M., Thapar, A., O'Donovan, M. C., Owen, M. J., Holmans, P. A., Kent, L. S. W., Middleton, F. A., Zhang-James, Y., Liu, L., Meyer, J. D., Nguyen, T. T., Romanos, J., Romanos, M., Seitz, C., Renner, T. J. & 29 others, Walitza, S., Warnke, A., Palmason, H. O., Buitelaar, J. K., Rommelse, N. N. J., Vasquez, A. A., Hawi, Z., Langley, K., Sergeant, J. A., Steinhausen, H. C., Roeyers, H., Biederman, J. J., Zaharieva, I. T., Hakonarson, H., Elia, J., Lionel, A. C., Crosbie, J., Marshall, C. R., Schachar, R., Scherer, S. W., Todorov, A. A., Smalley, S. L., Loo, S., Nelson, S. F., Shtir, C., Asherson, P. J., Reif, A., Lesch, K. P. & Faraone, S. V., 2012, In : American Journal of Psychiatry. 169, 2, p. 195 - 204 10 p.

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Epistasis between neurochemical gene polymorphisms and risk for ADHD
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fMRI activation during response inhibition and error processing: the role of the DAT1 gene in typically developing adolescents and those diagnosed with ADHD
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Spatial attentional bias as a marker of genetic risk, symptom severity, and stimulant response in ADHD
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1/01/18 → 31/12/21

CogChip: development of a targeted genotyping chip for executive function
Bellgrove, M., Hawi, Z., Wray, N. & Powell, D.
20/12/17 → 19/12/20

How inhibition shapes human brain oscillations and working memory capacity
Rogasch, N., Fornito, A., Hawi, Z. & Yucel, M.
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Roche Light Cycler 480/Victor Multilable Plate Reader/Biological Safety Cabinet.
Bellgrove, M., Egan, G., Hawi, Z., Fitzgerald, P., Georgiou-Karistianis, N., Ponsford, J., Rinehart, N. J., Stout, J., Fielding, J. & Enticott, P.
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