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 (United Kingdom)
Award Date: 22 Dec 1994

Biochemical Genetics, Masters, University of Strathclyde
Award Date: 18 Dec 1989

Biology, Honours, University of Baghdad
Award Date: 2 Jun 1982

Employment

Senior Research Fellow
Psychology
MONASH UNIVERSITY
3 Jul 2012 → present

Research outputs

Potential role for immune-related genes in autism spectrum disorders: Evidence from genome-wide association meta-analysis of autistic traits
Arenella, M., Cadby, G., De Witte, W., Jones, R. M., Whitehouse, A. J. O., Moses, E. K., Fornito, A., Bellgrove, M. A., Hawi, Z., Johnson, B., Tiego, J., Buitelaar, J. K., Kiemeney, L. A., Poelmans, G. & Bralten, J., Feb 2022, In: Autism. 26, 2, p. 361-372 12 p.

The Monash Autism-ADHD genetics and neurodevelopment (MAGNET) project design and methodologies: a dimensional approach to understanding neurobiological and genetic aetiology
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A rare missense variant in the ATP2C2 gene is associated with language impairment and related measures
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Environmental exposures associated with elevated risk for autism spectrum disorder may augment the burden of deleterious de novo mutations among probands
Pugsley, K., Scherer, S. W., Bellgrove, M. A. & Hawi, Z., Jan 2021, In: Molecular Psychiatry. 27, p. 710–730 21 p.

Evidence against benefits from cognitive training and transcranial direct current stimulation in healthy older adults
Horne, K. S., Filmer, H. L., Nott, Z. E., Hawi, Z., Pugsley, K., Mattingley, J. B. & Dux, P. E., Jan 2021, In: Nature Human Behaviour. 5, 1, p. 146-158 13 p.

Functional validation of CHMP7 as an ADHD risk gene
Dark, C., Williams, C., Bellgrove, M. A., Hawi, Z. & Bryson-Richardson, R. J., 6 Nov 2020, In: Translational Psychiatry. 10, 1, 8 p., 385.

Shared genetic background between children and adults with attention deficit/hyperactivity disorder
Rovira, P., Demontis, D., Sanchez-Mora, C., Zayats, T., Klein, M., Roth Mota, N., Weber, H., Garcia-Martinez, I., Pagerols, M., Vilar-Ribo, L., Arribas, L., Richarte, V., Corrales, M., Fadeuilhe, C., Bosch, R., Espanol Martin, G., Almos, P., Doyle, A. E., Horacio Grevet, E., Grimm, O. & 36 others, Halmoy, A., Hoogman, M., Hutz, M., Jacob, C., Kittel-Schneider, S., Knappskog, P. M., Lundervold, A. J., Rivero, O., Luiz Rovaris, D., Salatino-Oliveira, A., Santos da Silva, B., Svirin, E., Sprooten, E., Strekalova, T., ADHD Working Group of the Psychiatric Genomics Consortium (PGC), 23andMe Research Team, Arias-Vasquez, A., Sonuga-Barke, E., Asherson, P. J., Bau, C. H. D., Buitelaar, J. K., Cormand, B., Faraone, S. V., Haavik, J., Johansson, S. E., Kuntsi, J., Larsson, H., Lesch, K. P., Reif, A., Rohde, L. A., Casas, M., Borglum, A. D., Franke, B., Ramos-Quiroga, J. A., Soler Artigas, M. & Ribases, M., Sep 2020, In: Neuropsychopharmacology. 45, p. 1617-1626 10 p.

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Impact of CYP2C19 genotype-predicted enzyme activity on hippocampal volume, anxiety, and depression
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Cross-Disorder Group of the Psychiatric Genomics Consortium, 12 Dec 2019, In: Cell. 179, 7, p. 1469-1482.e11 25 p.

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
Tong, J., Lee, K. M., Liu, X., Nefzger, C. M., Vijayakumar, P., Hawi, Z., Pang, K. C., Parish, C. L., Polo, J. M. & Bellgrove, M. A., 1 Jan 2019, In: Stem Cell Research. 34, 5 p., 101353.

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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Allelic variation in dopamine D2 receptor gene is associated with attentional impulsiveness on the Barratt Impulsiveness Scale (BIS-11)
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Attention Deficit Hyperactivity Disorder
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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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1/01/18 → 31/12/21

CogChip: development of a targeted genotyping chip for executive function
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20/12/17 → 19/12/21

Data-driven diagnoses and treatments for neurodevelopmental disorders.
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20/01/20 → 30/06/24

How exercise modulates neural plasticity and memory consolidation
Coxon, J., Byblow, W. D. & Hawi, Z.
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