Dr. Ziarih Hawi
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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

Turner Inst for Brain &Mental Health
MONASH UNIVERSITY
24 Aug 2022 → present

Research outputs

Evaluating the regulatory function of non-coding autism-associated single nucleotide polymorphisms on gene expression in human brain tissue
Pugsley, K., Namipashaki, A., Bellgrove, M. A. & Hawi, Z., Mar 2024, In: Autism Research. 17, 3, p. 467-481 15 p.

Integration of xeno-free single-cell cloning in CRISPR-mediated DNA editing of human iPSCs improves homogeneity and methodological efficiency of cellular disease modeling

Namipashaki, A., Pugsley, K., Liu, X., Abrehart, K., Lim, S. M., Sun, G., Herold, M. J., Polo, J. M., Bellgrove, M. A. & Hawi, Z., 12 Dec 2023, In: Stem Cell Reports. 18, 12, p. 2515-2527 13 p.

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Dissecting Schizotypy and Its Association With Cognition and Polygenic Risk for Schizophrenia in a Nonclinical Sample
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Demontis, D., Walters, G. B., Athanasiadis, G., Walters, R., Therrien, K., Nielsen, T. T., Farajzadeh, L., Voloudakis, G., Bendl, J., Zeng, B., Zhang, W., Grove, J., Als, T. D., Duan, J., Satterstrom, F. K., Bybjerg-Grauholm, J., Bækved-Hansen, M., Gudmundsson, O. O., Magnusson, S. H., Baldursson, G., & 28 othersDavidsdottir, K., Haraldsdottir, G. S., Agerbo, E., Hoffman, G. E., Dalsgaard, S., Martin, J., Ribasés, M., Boomsma, D. I., Soler Artigas, M., Roth Mota, N., Howrigan, D., Medland, S. E., Zayats, T., Rajagopal, V. M., Nordentoft, M., Mors, O., Hougaard, D. M., Mortensen, P. B., Faraone, S. V. , Stefansson, H., Roussos, P., Franke, B., Werge, T., Neale, B. M., Stefansson, K., Børglum, A. D., ADHD Working Group of the Psychiatric Genomics Consortium & iPSYCH-Broad Consortium, Apr 2023, In: Nature Genetics. 55, 4, p. 730 1 p.

Genome-wide analyses of ADHD identify 27 risk loci, refine the genetic architecture and implicate several cognitive domains
Demontis, D., Walters, G. B., Athanasiadis, G., Walters, R., Therrien, K., Nielsen, T. T., Farajzadeh, L., Voloudakis, G., Bendl, J., Zeng, B., Zhang, W., Grove, J., Als, T. D., Duan, J., Satterstrom, F. K., Bybjerg-Grauholm, J., Bækved-Hansen, M., Gudmundsson, O. O., Magnusson, S. H., Baldursson, G., & 27 othersDavidsdottir, K., Haraldsdottir, G. S., Agerbo, E., Hoffman, G. E., Dalsgaard, S., Martin, J., Ribasés, M., Boomsma, D. I., Soler Artigas, M., Roth Mota, N., Howrigan, D., Medland, S. E., Zayats, T., Rajagopal, V. M., Nordentoft, M., Mors, O., Hougaard, D. M., Faraone, S. V., Stefansson, H., Roussos, P., Franke, B., Werge, T., Neale, B. M., Stefansson, K., Børglum, A. D., ADHD Working Group of the Psychiatric Genomics Consortium & iPSYCH-Broad Consortium, Feb 2023, In: Nature Genetics. 55, 2, p. 198-208 11 p.

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Sex differences in anxiety and depression in children with attention deficit hyperactivity disorder: Investigating genetic liability and comorbidity
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The Monash Autism-ADHD genetics and neurodevelopment (MAGNET) project design and methodologies: a dimensional approach to understanding neurobiological and genetic aetiology

Knott, R., Johnson, B. P., Tiego, J., Mellahn, O., Finlay, A., Kallady, K., Kouspos, M., Mohanakumar Sindhu, V. P., Hawi, Z., Arnatkeviciute, A., Chau, T., Maron, D., Mercieca, E. C., Furley, K., Harris, K., Williams, K., Ure, A., Fornito, A., Gray, K., Coghill, D., & 7 othersNicholson, A., Phung, D., Loth, E., Mason, L., Murphy, D., Buitelaar, J. & Bellgrove, M. A., 5 Aug 2021, In: Molecular Autism. 12, 1, 24 p., 55.

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Martinelli, A., Rice, M. L., Talcott, J. B., Diaz, R., Smith, S., Raza, M. H., Snowling, M. J., Hulme, C., Stein, J., Hayiou-Thomas, M. E., Hawi, Z., Kent, L., Pitt, S. J., Newbury, D. F. & Paracchini, S., 15 Jun 2021, In: Human Molecular Genetics. 30, 12, p. 1160-1171 12 p.

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Risk variants and polygenic architecture of disruptive behavior disorders in the context of attention-deficit/hyperactivity disorder

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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 othersHalmoy, 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. & Ribasés, M., Sept 2020, In: Neuropsychopharmacology. 45, p. 1617-1626 10 p.

A genetic profile of refractory individuals with major depressive disorder and their responsiveness to transcranial magnetic stimulation

Souza-Silva, N. G., Nicolau, E. S., Hoy, K., Hawi, Z., Bellgrove, M. A., Miranda, D. M., Romano-Silva, M. A. & Fitzgerald, P. B., Jul 2020, In: Brain Stimulation. 13, 4, p. 1091-1093 3 p.

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Savadlou, A., Arnatkeviciute, A., Tiego, J., Hawi, Z., Bellgrove, M. A., Fornito, A. & Bousman, C., Jun 2020, In: Psychiatry Research. 288, 4 p., 112984.

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Intensity matters: high-intensity interval exercise enhances motor cortex plasticity more than moderate exercise
Andrews, S. C., Curtin, D., Hawi, Z., Wongtrakun, J., Stout, J. C. & Coxon, J. P., 10 Jan 2020, In: Cerebral Cortex. 30, 1, p. 101-112 12 p.

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Discovery of the first genome-wide significant risk loci for attention deficit/hyperactivity disorder
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A case-control genome wide association study of childhood attention deficit hyperactivity disorder (ADHD)
Hawi, Z., Yates, H., Kent, L. & Gill, M., 2019, In: European Neuropsychopharmacology. 29, Supp 3, p. s956-s956 1 p.

A case-control genome-wide association study of ADHD discovers a novel association with the tenascin R (TNR) gene
Hawi, Z., Yates, H., Pinar, A., Arnatkeviciuteb, A., Johnson, B., Tong, J., Pugsley, K., Dark, C., Pauper, M., Klein, M., Heussler, H. S., Hiscock, H., Fornito, A., Tiego, J., Finlay, A., Vance, A., Gill, M., Kent, L. & Bellgrove, M. A., 18 Dec 2018 , In: Translational Psychiatry. 8, 1, 8 p., 284.

Genome-wide association study reveals novel genetic locus associated with intra-individual variability in response time
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A genetic investigation of sex bias in the prevalence of attention-deficit/hyperactivity disorder
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