

Curriculum Vitae

HUGH GARAVAN PhD

Contact Details

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Current Appointments

- **Professor**, Department of Psychiatry, University of Vermont, USA
- **Adjunct Associate Professor**, School of Psychology, Trinity College Dublin, Ireland

Education

1990	National University of Ireland	B.A.	Honours Psychology
1993	Bowling Green State University	M.A.	Cognitive Psych & Behavioral Neuro
1995	Bowling Green State University	Ph.D.	Cognitive Psych & Behavioral Neuro

Previous Professional Positions

1995 – 1997	Postdoctoral Fellow, Department of Psychology, Cornell University, USA.
1997 – 1999	Postdoctoral Fellow and Research Scientist, Department of Psychiatry and Behavioral Medicine, Medical College of Wisconsin, USA.
2000 – 2005	Assistant Clinical Professor, Department of Psychiatry and Behavioral Medicine, Medical College of Wisconsin, USA.
2000 – 2005	Lecturer (Senior Lecturer: 2005-2007), Department of Psychology, Trinity College Dublin, Ireland.
2003 – 2006	Director of Functional Brain Imaging, Trinity College Institute of Neuroscience, Trinity College Dublin, Ireland.
2004 – 2010	Research Scientist V, Nathan Kline Institute, New York, USA.
2005 – 2010	Associate Professor, School of Psychology, Trinity College Dublin, Ireland.

Post-Graduate Student Supervision

2004	Jacqueline Kaufman (PhD) * Catherine Fassbender (PhD)	Kevin Murphy (PhD) Nick Kidd (D.Clin.Psych.)
2005	Veronica Dixon (MSc) *	
2006	Clare Kelly (PhD)	
2007	Sharon O’Sullivan (D.Clin.Psych.) Kelly Janssens (MSc) Erik O’ Hanlon (PhD)	Emma Sheehan (MSc) Susan MacManus (MSc) Dearbhla O’ Connor (MSc)
2008	Gloria Roberts (PhD) Liam Nestor (PhD) Alex Pereda (PhD) * Saud Alhusaini (MSc)	Lisa Ronan (PhD) Ciaran Wynne (MSc) Alice Galvin (MSc) Adam Stone (MSc)
2009	Marika Doucet (MSc) Jelena Ivanovic (MSc) Silvia Mencaraglia (MSc)	Martina Hughes (MSc) Sameer Datwani (MSc) Stacey Ball (MSc)
2010	Sarah Jacobson (PhD)	Sharon McElroy (D.Clin.Psych.) *
2011	Finian O’ Brien (PhD) *	
2012	Jane Sanders (PhD) *	
2013	Brendan Behan (PhD)	Ryan Bell (PhD) *
2014	Nick Ortiz (MSc)	Kathryn Olds (MSc)
2017	Brittany Fair (MSc) *	
2019	Nick D’Alberto (PhD) Kelsey Hudson (PhD) **	Phil Spechler (PhD)
2023	Hannah Loso (PhD) ** Sage Hahn **	Amanda Sidwell ** De Kang Yuan **

* *Co-supervisor*

** *Indicates anticipated dates of degrees to be awarded*

Post-Doctoral Supervision

Andrea Kuebler	Robert Hester	Elena Magno
Cristina Simoes-Franklin	Colm Connolly	Eric O Hanlon
Edmund Lalor	Robert Whelan	Catherine Orr
Scott Mackey	Bader Chaarani	Nick Allgaier
Matt Albaugh	Shana Adise*	Max Owens*
Jonatan Gonzalez*	Zhipeng Cao*	Renata Cupertino*
Anthony Juliano*		

* *Current*

Teaching Experience (Courses Taught)

Cognitive Psychology	Neuroimaging of Cognitive Processes
Methodology and Statistics	Psychological Disorders
Health Psychology	History of Psychology
Cognitive Neuroscience of Addiction	Learning, Cognition & Behavior
Cognition	Introduction to Functional Neuroimaging
Advanced Cognitive Neuroscience	

Professional Activities

- Served on external advisory panel to the 2015 NIDA Strategic Plan.
- Former member of the NPAS study section (2014-2018).
- Member of the Scientific Advisory Board of the Organization of Human Brain Mapping (2014 – present).
- Secretary of the Organization of Human Brain Mapping (2011-2012).
- Served as an *ad hoc* grant reviewer for: The National Institute of Health; National Science Foundation; The Economic and Social Research Council, UK; The Newton Trust, UK; Medical Research Council, UK.
- Served on Medical Research Council (UK) Addiction Project Group in developing a new grants programme for addiction research.
- Served as *ad hoc* reviewer for the following journals:
 - Addiction Biology
 - Archives of General Psychiatry
 - Biological Psychiatry
 - Biological Psychiatry: Cognitive Neuroscience and Neuroimaging
 - BMC Psychiatry
 - Brain
 - Brain & Cognition
 - Brain, Behavior and Immunity
 - Brain Structure & Function
 - Cerebral Cortex
 - Cognitive, Affective & Behavioral Neuroscience
 - Cognitive Brain Research
 - Drug & Alcohol Dependence
 - Emotion
 - European Journal of Neuroscience
 - Experimental Psychology
 - Frontiers in Bioscience
 - Frontiers in Neuroscience
 - Human Brain Mapping
 - JAMA Psychiatry
 - Journal of the American Academy of Child and Adolescent Psychiatry
 - Journal of Cognitive Neuroscience
 - Journal of Experimental Psychology: LMC
 - Journal of the International Physiological Society
 - Journal of Studies on Alcohol and Drugs
 - The Lancet
 - The Lancet Psychiatry
 - Memory & Cognition
 - Molecular Psychiatry
 - Nature Communications
 - Nature Neuroscience
 - Nature Reviews Neuroscience
 - Nature Scientific Reports
 - NeuroImage
 - Neuron
 - Neuropsychological Rehabilitation
 - Neuropsychopharmacology
 - NeuroReport
 - Neuroscience
 - Neuroscience & Biobehavioral Reviews
 - Progress in Neurobiology
 - Proceedings of the National Academy of Sciences
 - Psychiatry Research
 - Psychonomic Bulletin & Review
 - Psychopharmacology
 - Science
 - Schizophrenia Bulletin
 - Social, Cognitive and Affective Neuroscience
 - The Irish Journal of Psychological Medicine
 - The Journal of Neuroscience
 - Trends in Cognitive Sciences
- Served on Programme Committee for the International Neuropsychology Society Meeting

in Dublin (July 2005), the European Brain and Behaviour Society Meeting in Dublin (September 2005), and the Flux Society Annual Meeting (September 2016).

- Served as PhD external examiner for National University of Ireland, Maynooth; Bangor University, Wales; University of Toronto, Canada; The University of Newcastle, Australia; Monash University, Australia; University of Pittsburgh, USA.
- Outreach and media activities include numerous contributions to print (The Irish Times; The Irish Independent), radio (NPR; Vermont Public Radio; BBC; numerous Irish radio stations) and television (interviews plus documentaries on addiction, anxiety disorders and humour). Generated visual aids for Alzheimers care-giver video. Provided lecture on addiction for continuing medical education for the Irish College of General Practitioners.

Grants Awarded (PI only)

Dates	Agency	Topic	Amount	Role
2018-2023	National Institute on Drug Abuse	T32: Training in Complex Systems and Data Science Approaches Applied to the Neurobiology of Drug Use	\$1,217,730	PI
2018-2023	National Institute on Drug Abuse	ENIGMA- Addiction: Pooling of Existing Datasets to Identify Brain and Genetic Correlates of Addiction	\$3,717,740	PI
2015-2020	National Institute on Drug Abuse	ABCD-USA Consortium: Research Project	\$6 million	PI
2014-2016	National Institute on Drug Abuse	ENIGMA-Addiction: A data-pooling of brain and genetic correlates of addiction.	\$445,000	PI
2013-2014	NBH spire microgrant (UVM)	A neuroimaging study on the cognitive and anxiolytic benefits of exercise.	\$8,000	PI
2008-2011	Health Research Board, Ireland	Neurocognitive risk and protective factors for addiction.	€300,000	PI
2006-2010	National Institute on Drug Abuse	The role of executive functions in cocaine abuse (continuation)	\$814,000	PI
2006-2011	EU Framework 6	Reinforcement-related behaviour in normal brain function and psychopathology	€10 million €488,000*	PI*
2006-2009	EU Marie Curie Transfer of Knowledge	Using cognitive neuroscience to understand how consumers make and maintain healthy food choices	€200,000	PI*
2006-2007	Royal City of Dublin Hospital Trust, Ireland	The role of cognitive control in cigarette smoking and abstinence	€45,000	PI

2001-2006	National Institute on Drug Abuse	The role of executive functions in cocaine abuse	\$1.3 million	PI
2002-2003	McDonnell Foundation	Functional imaging and neurorehabilitation	\$30,000	PI
2000	Enterprise Ireland	International collaboration programme (with Berkeley University)	£3000	PI
2000	Trinity College Dublin	Competitive Start-up Fund	£20,000	PI
1993-1994	Bowling Green State University	Research Fellowship	\$10,000	PI

** Refers to Ireland component only*

Other Awards and Honors

- Elected a Fellow of Trinity College Dublin in 2004.
- I was named mentor for postdoctoral Fellows Cristina Simoes and Elena Magno who obtained IRCSET (Irish Research Council for Science Engineering and Technology) and IRCHSS (Irish Research Council for the Humanities and Social Sciences) awards totalling approx. €200,000. I was a co-mentor for a K23 award for \$826,000 to Marc Copersino of McClean General Hospital, Harvard.
- I was a named supervisor for the successful Initiatives in Medicine in Ireland PhD bids by Drs. Sanders and O'Brien (approx. €400,000).
- Contributed to the successful PRTLII bid by Trinity College Dublin establishing the Trinity College Institute of Neuroscience (€28 million).

Invited Presentations / Conference Talks

Does not include departmental or university talks.

2001

Mar – Applied Psychology Unit, Cambridge, UK.

Mar – Beaumont Hospital, Dublin, Ireland.

April – Psychological Society of Ireland, Dublin, Ireland.

Nov – Society for Neuroscience Special Symposium, San Diego, USA.

2002

Feb – University College Dublin, Dublin, Ireland.

April – Brain Society, Trinity College, Dublin, Ireland.

- May – University of Tuebingin, Tuebingin, Germany.
- June – National Institute of Mental Health (NIH), Baltimore, USA.
- Aug – National Institute of Drug Abuse (NIH), Baltimore, USA.

2003

- July – Errors, Conflicts, and the Brain, Dortmund, Germany.
- July – British Association for Psychopharmacology, Harrogate, UK.
- Sept – European Behavioural Pharmacology Society, Antwerp, Belgium.

2004

- Feb – Nathan Kline Institute, New York, USA.
- Feb – Brookhaven National Laboratories, New York, USA
- Mar – St. Patrick's Hospital, Dublin, Ireland.
- April – Cognitive Neuroscience Society Symposium, San Francisco, USA.
- Oct – National Rehabilitation Hospital, Dublin, Ireland.

2005

- Mar – Control in Attention and Action, Amsterdam, The Netherlands.
- July – Inaugural Academic Meeting, Trinity College Institute of Neuroscience.
- July – Conway Institute, University College Dublin, Ireland.
- Sept – National Institute on Drug Abuse, Bethesda, Maryland, USA.
- Nov – Queen's University, Belfast, Northern Ireland.
- Dec – Lausanne, Switzerland.
- Dec – Prefrontal Function Symposium, Leuven, Belgium.

2006

- June – Errors, Conflict and Reward, Amsterdam, The Netherlands.
- Sept – Mechanisms of Addiction, Queensland, Australia.
- Sept – University College Galway, Galway, Ireland.
- Nov – University College London, London, UK.
- Nov – Oxford University, Oxford, UK.

2007

- Jan – Cambridge University, Cambridge, UK.
- Jan – University College Dublin, Dublin, Ireland.
- Oct – University of Wales, Bangor, UK.
- Sept – European Society for Cognitive Psychology.
- Sept – European Society for Biomedical Research on Alcoholism.

2008

- Jan – Pharmacology, Biochemistry & Behavior Conference, Morzine.
- Jan – Alpine Cognition Conference, Champéry.
- Feb – Royal Society, London.
- May – Dartmouth College, New Hampshire, USA.
- May – American Psychological Association workshop, Washington D.C.
- Nov – CUBRIC, Cardiff University, Wales.
- Nov – Society for Neuroscience Annual Meeting Symposium, Washington.
- Dec – Dopamine: From Bench to Bedside. NUIG, Ireland

2009

- Apr – University of Sussex, UK.
- Mar – Psychiatry Department Grand Rounds, University of Vermont, USA.
- May – Institute of Mental Health, Mannheim, Germany
- June – University of Barcelona, Spain.
- Oct – National Institute on Drug Abuse Symposium, Washington DC, USA
- Oct – National Institute on Drug Abuse, NIH, Baltimore USA
- Nov – Psychology Department, University of Vermont, USA.
- Nov – Montreal Neurological Institute's Killam lecture series, Montreal.
- Dec – The Mind Research Network, University of New Mexico, USA

2010

- June – Control and Motivation Symposium, University of Oxford, UK
- July – Department of Psychiatry, Albert Einstein University, New York, USA
- Nov – University Medical Center Hamburg-Eppendorf, Germany

2011

- Feb – Incentives and Health, University of Maryland, USA.
- May – Biological Psychiatry annual meeting, Prague, Czech Republic.
- June – Department of Psychology, UCLA, USA.
- June – College on Problems of Drug Dependence annual mtg, Florida, USA.
- Aug – European Behavioral Pharmacology Society, Amsterdam, Holland.
- Oct – Radiology Imaging Center Lecture, University of Vermont, USA.
- Oct – Complex Systems TEDx Event, University of Vermont, USA.

2012

- May – McLean Neuroscience Seminar, McLean Hospital, Boston, USA.
- May – Soirée Scientifique, CHU Sainte-Justine, Montréal, Canada.
- June – “Big Science - Imaging Genetics,” OHBM annual meeting, Beijing, China.
- Nov – University of Pittsburgh, Pittsburgh, USA.

Dec – American College of Neuropsychopharmacology, Florida, USA.

2013

Jan – Winter Conference on Brain Research, Breckenridge, Colorado, USA.

Feb – Int'l Conf on Applications of Neuroimaging to Alcoholism, New Haven, USA.

June – Philips Neuroscience MRI lunch, OHBM meeting, Seattle, USA.

June – Japanese Neuroscience Society, Kyoto, Japan.

Oct – University of Massachusetts Medical School, Massachusetts, USA.

2014

Jan – Winter Conference on Brain Research, Steamboat Springs, Colorado, USA.

Mar – National Institute on Drug Abuse, Baltimore, USA.

May – Developmental and Population Neuroscience, University of Michigan, USA.

May – Biological Psychiatry Annual Meeting, New York, USA.

June – Int'l Congress on Insight in Psychiatry and Neurological Diseases, Poitiers, France.

June – Research Society on Alcoholism annual meeting, Seattle, USA.

June – Organization for Human Brain Mapping annual meeting, Hamburg, Germany.

Oct – Am. Acad. of Child and Adolescent Psychiatry annual meeting, San Diego, USA.

2015

Mar – Yale's Magnetic Resonance Research Center, New Haven, CO, USA.

June – International Behavioral Neuroscience Society annual meeting, Victoria, CA.

Sept – FLUX annual meeting, Leiden, The Netherlands.

Oct – NIDA mini-convention, Society for Neuroscience annual meeting, Chicago, USA.

Oct – Molecular Psychiatry annual meeting, San Francisco, USA.

Nov – University of Rochester, Rochester, USA.

Dec – ACNP annual meeting, Florida, USA.

2016

Jan – APSARD annual meeting, Washington DC, USA.

Feb – North Dakota State University, Fargo, USA.

Apr – CHU Sainte-Justine, Montreal, Canada.

May – The Neuroscience of Decision-Making, Montreal, Canada.

June – American Psychiatric Association annual meeting, Atlanta, USA.

June – Biological Psychiatry annual meeting, Atlanta, USA.

June – Human Brain Mapping annual meeting, Geneva, Switzerland.

June – Philips OHBM Neuroscience Lunch Symposium, Geneva, Switzerland.

Oct – Persistent Maladaptive Behaviors: Why We Make Bad Choices, Rochester, NY.

Dec – Merrill Palmer Skillman Institute at Wayne State University, Detroit, USA

2017

- Jan – Neuroscience Colloquium, University of British Columbia, Vancouver, Canada.
- Jan – Psychiatry Grand Rounds, Mt. Sinai, New York, USA.
- Feb – Child Health Research Center Seminar Series, Columbus, Ohio, USA.
- May – International Society for Research in Impulsivity (InSRI), San Diego, USA.
- June – College on Problems of Drug Dependence symposium, Montreal, Canada.
- Sept – European Behavioural Pharmacology Society, Crete, Greece.
- Sept – Flux annual meeting, Portland, Oregon, USA.
- Oct – Keynote: American Society of Functional Neuroradiology, Portland, Oregon, USA.
- Dec – American College of Neuropsychopharmacology, Palm Springs, CA, USA.
- Dec – UCSF Seminar Series, San Francisco, CA, USA.

2018

- Jan – Winter Conference on Brain Research, Whistler, BC, Canada.
- Mar – Vanderbilt Brain Institute Neuroscience Seminar Series, Nashville, TN, USA.
- Apr – Interdepartmental Drugs of Abuse Seminar Series, Ann Arbor, Michigan, USA.
- May – American Psychiatric Association Meeting, New York, USA.
- May – Biological Psychiatry Annual Meeting, New York, USA.
- May – Keynote: Social and Affective Neuroscience Annual Meeting, New York, USA.
- June – College on Problems of Drug Dependence Annual Meeting, New York, USA.
- Sept – Keynote: Addiction Science Congress, Tehran, Iran
- Oct – DEVSEC: Conference on the Use of Secondary Data, Phoenix, USA
- Nov – Translational Aspects of Stopping Behavior and Cognition, San Diego, USA
- Nov – ENIGMA-Addiction satellite meeting, SFN, San Diego, USA
- Dec – Neuroscience Society, Trinity College Dublin, Dublin, Ireland

2019

- Jan – Medical University of South Carolina, Charleston, SC, USA
- Feb – Vermont BrainBee, VT, USA
- Apr – German Society for Child and Adolescent Psychiatry, Mannheim, Germany
- June – Organization for Human Brain Mapping annual meeting, Rome, Italy
- June – College on Problems of Drug Dependence annual meeting, San Antonio, USA
- Aug – European Behavioural Pharmacology Society, Braga, Portugal
- Nov – Polygenic Scores, Genetics, and Brain Imaging, Montreal Canada
- Nov – Public lecture on cannabis and adolescence, Dublin, Ireland
- Dec – ABCD Data Use symposium, ACNP, Florida
- Dec – Cannabinoids: Risks and Benefits Across the Lifespan? ACNP, Florida

Publications

Google Scholar Search:

<http://scholar.google.com/citations?user=EwNVxgEAAAAJ&hl=en>

Commentaries and Reports:

1. Compton WM, Dowling G, & Garavan H. (In Press). Ensuring the Best Use of Data in Scientific Inquiry: The Adolescent Brain Cognitive Development Study. Jama Pediatrics.
2. **Garavan H**, & Albaugh MD. (2019). Connecting with Resilience. Biological Psychiatry 85, 621-622.
3. **Garavan H** (In Press). Advancing addiction research through expert consensus. Addiction.
4. **Garavan H** (2005). Overview of the application of functional neuroimaging to studying addiction: with particular reference to cognitive neuroscience investigations. UK Government Foresight Report.

Book Chapters:

1. Spechler PA, Ivanciu A, & **Garavan H**. (In Press). Risk and Protective Factors for Substance Use and Addiction. In "Textbook of Addiction Treatment: International Perspectives", 2nd edition. Springer Nature
2. **Garavan H**, Potter A, Brennan K, & Foxe JJ. (In Press). Neural Bases of Addiction-Related Impairments in Response Inhibition. In "Wiley-Blackwell Handbook on the Cognitive Neuroscience of Addiction." Stephen J Wilson (Ed); Wiley-Blackwell.
3. Chaarani B, Hudson KE, Spechler PA, Foxe JJ, Potter A, & **Garavan H**. (In Press). The Neural Basis of Response Inhibition and Substance Abuse. In "Wiley-Blackwell Handbook of Cognitive Control." Tobias Egner (Ed); Wiley-Blackwell.
4. Stanger C, & **Garavan H**. (2014). Potential Neural Influences in Contingency Management for Adolescent Substance Use. In "Neuroimaging and Psychosocial Addiction Treatment" Sarah Feldstein Ewing, Katie Witkiewitz, & Francesca Filbey, (Eds). Palgrave Macmillan.
5. Icke, I., Allgaier, N.A., Danforth, C.M., Whelan, R.A., **Garavan, H.**, Bongard, J.C., and the IMAGEN Consortium. (2014). A Deterministic and Symbolic Regression Hybrid Applied to Resting-State fMRI data. In Moore J., Kotanchek M., Riolo R. (Eds.), Genetic Programming Theory and Practice XI, 2013, Springer.

6. **Garavan, H.** (2011). Impulsivity and Addiction. In “Neuroimaging in the Addictions” B. Adinoff & E. A. Stein (Eds). ISBN: 978-0-470-66014-0
7. **Garavan, H.**, Kaufman, J.N., & Hester, R. (2010). Acute Effects of Cocaine on the Neurobiology of Cognitive Control. In “The Neurobiology of Addiction: New Vistas.” T.W. Robbins, B.J. Everitt & D.J. Nutt (Eds). Oxford University Press.
8. **Garavan, H.**, & Murphy, K. (2009). Experimental Design. In “fMRI Techniques and Protocols (Neuromethods).” Massimo Filippi (Ed). Human Press.
9. **Garavan, H.**, Lingford-Hughes, A., Jones, T., Morris, P., Rothwell, J. & Williams, S. (2007). Neuroimaging. In Nutt D, Robbins T, Stimson G, Ince M & Jackson A. Drugs and the future: brain science, addiction and society. Elsevier, London.
10. Robertson, I., & **Garavan, H.** (2004). “Vigilant Attention.” In The Cognitive Neurosciences, 3rd Edition, Gazzaniga, M. (Ed.). MIT Press.
11. **Garavan, H.**, Hester, R., & Fassbender, C. (2004). “fMRI studies of the midline cortex’s role in error-detection.” In M. Ullsperger & M. Falkenstein (eds.) Errors, Conflicts, and the Brain. Current Opinions on Performance Monitoring. Leipzig: MPI of Cognitive Neuroscience.

Published Articles:

1. Robert GH, Luo Q, Yu T, Chu C, Ing A, Jia T, Papadopoulos Orfanos D, Burke-Quinlan E, Desrivieres S, Ruggeri B, Spechler P, Charani B, Tay N, Banaschewski T, Bokde ALW, Bromberg U, Flor H, Frouin V, Gowland P, Heinz A, Ittermann B, Martinot JL, Paillere Martinot ML, Nees F, Poustka L, Smolka MN, Vetter NC, Walter H, Whelan R, Conrod P, Barker T, **Garavan H**, Schumann G; IMAGEN Consortium. Association of Gray Matter and Personality Development With Increased Drunkenness Frequency During Adolescence. *JAMA Psychiatry*. 2019 Dec 18. doi: 10.1001/jamapsychiatry.2019.4063.
2. Lett. Cortical surfaces mediate the relationship between polygenic scores for intelligence and general intelligence." *Cerebral Cortex*.
3. Fair, D.A., Miranda-Dominguez, O., Snyder, A.Z., Perrone, A., Earl, E.A., Van, A.N., Koller, J.M., Feczko, E., Tisdall, M.D., van der Kouwe, A., Klein, R.L., Mirro, A.E., Hampton, J.M., Adeyemo, B., Laumann, T.O., Gratton, C., Greene, D.J., Schlaggar, B.L., Hagler Jr., D., Watts, R., **Garavan, H.**, Barch, D.M., Nigg, J.T., Petersen, S.E., Dale, A.M., Feldstein-Ewing, S.W., Nagel, B.J., Dosenbach, N.U.F., Correction of respiratory artifacts in MRI head motion estimates (In Press). *NeuroImage*.
4. Sylvane Desrivieres, Tianye Jia, Congying Chu, Yun Liu, Jenny van Dongen, Evangelos Papastergios, Nicola Armstrong, Mark Bastin, Tania Carrillo-Roa, Anouk den Braber, Mathew Harris, Rick Jansen, Jingyu Liu, Michelle Luciano, Anil Ori, Roberto Roiz Santiañez, Barbara Ruggeri, Daniil Sarkisyan, Jean Shin, Kim Sungeun, Diana Tordesillas Gutiérrez, Dennis van't Ent, David Ames, Eric Artiges, Georgy Bakalkin, Tobias Banaschewski, Arun Bokde, Henry Brodaty, Uli Bromberg, Rachel Brouwer, Christian Buechel, Erin Quinlan, Wiepke Cahn, Greig De Zubicaray, Stefan Ehrlich, Tomas Ekström, Herta Flor, Juliane Fröhner, Vincent Frouin, **Hugh Garavan**,

- Penny Gowland, Andreas Heinz, Jacqueline Hoare, Bernd Ittermann, Neda Jahanshad, Jiyang Jiang, John Kwok, Nicholas Martin, Jean-Luc Martinot, Karen Mather, Katie McMahon, Allan McRae, Frauke Nees, Dimitri Papadopoulos Orfanos, Tomáš Paus, Luise Poustka, Philipp Saemann, Peter Schofield, Michael Smolka, Lachlan Strike, Jalmar Teeuw, Anbupalam Thalamuthu, Julian Trollor, Henrik Walter, Joanna Wardlaw, Wei Wen, Robert Whelan, Dan Stein, Liana Apostolova, Elisabeth Binder, Dorret Boomsma, Vince Calhoun, Benedicto Crespo-Facorro, Ian Deary, Hilleke Hulshoff Pol, Roel Ophoff, Zdenka Pausova, Perminder Sachdev, Andrew Saykin, Margaret Wright, Paul Thompson, and Gunter Schuman. Epigenome-wide meta-analysis of blood DNA methylation and its association with subcortical volumes: findings from the ENIGMA Epigenetics Working Group. Molecular Psychiatry.
5. Yann Chye¹, Scott Mackey², Boris A Gutman³, Christopher R K Ching⁴, Albert Batalla^{5,6}, Sara Blaine⁷, Samantha Brooks⁸, Elisabeth Caparelli⁹, Janna Cousijn¹⁰, Alain Dagher¹¹, John J Foxe¹², Anna E Goudriaan^{13,14}, Robert Hester¹⁵, Kent Hutchison¹⁶, Neda Jahanshad⁴, Anne M Kaag¹⁰, Ozlem Korucuoglu¹⁷, Chiang-Shan R Li⁷, Edythe D London¹⁸, Valentina Lorenzetti^{1,19}, Maartje Luijten²⁰, Rocio Martin-Santos⁶, Shashwath Meda²¹, Reza Momenan²², Angelica Morales¹⁸, Catherine Orr³, Martin P Paulus^{23,24}, Godfrey Pearlson⁷, Liesbeth Reneman²⁵, Lianne Schmaal²⁶, Rajita Sinha⁷, Nadia Solowij^{27,28}, Dan J Stein⁸, Elliot A Stein⁹, Deborah Tang¹¹, Anne Uhlmann⁸, Ruth van Holst²⁶, Dick J Veltman²⁹, Antonio Verdejo-Garcia¹, Reinout W Wiers⁹, Murat Yücel¹, Paul M Thompson⁴, Patricia Conrod³⁰, **Hugh Garavan**. Subcortical surface morphometry in substance dependence: An ENIGMA addiction working group study. Addiction Biology.
 6. Marek et al., Brenden Tervo-Clemmens^{2*}, Ashley N. Nielsen³, Muriah D. Wheelock¹, Ryland L. Miller⁴, Timothy O. Laumann¹, Eric Earl⁶, William W. Foran⁵, Michaela Cordova⁶, Olivia Doyle⁶, Anders Perrone⁶, Oscar Miranda-Dominguez⁶, Eric Feczko^{6,7}, Darrick Sturgeon⁶, Alice Graham⁶, Robert Hermosillo⁶, Kathy Snider⁶, Anthony Galassi⁶, Bonnie J. Nagel⁶, Sarah W. Feldstein Ewing⁶, Adam T. Eggebrecht⁸, **Hugh Garavan**⁹, Anders M. Dale¹⁰, Deanna J. Greene^{1,8}, Deanna M. Barch^{1,8,11}, Damien A. Fair⁶, Beatriz Luna⁵, Nico U.F. Dosenbach⁴ Identifying Reproducible Individual Differences in Childhood Functional Brain Networks: An ABCD Study. Developmental Cognitive Neuroscience.
 7. Quinlan E, Tobias Banaschewski, Gareth Barker, Arun Bokde, Uli Bromberg, Christian Buechel, Sylvane Desrivieres, Herta Flor, Vincent Frouin, **Hugh Garavan**, Andreas Heinz, Rüdiger Brühl, Jean-Luc Martinot, Marie-Laure Paillère Martinot, Frauke Nees, Dimitri Papadopoulos Orfanos, Tomáš Paus, Luise Poustka, Sarah Hohmann, Michael Smolka, Juliane Fröhner, Henrik Walter, Robert Whelan, Gunter Schumann. Identifying biological markers for improved precision medicine in psychiatry. Molecular Psychiatry.
 8. Ing et al. Identifying neurobehavioural symptom groups based on shared brain mechanisms. Nature Human Behaviour.
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