

BIOSKETCH for ANDERS D. BØRGLUM, MD, PhD

Anders Børglum is Professor of Medical Genetics and Chair of Personalized Medicine Research at Department of Biomedicine, Aarhus University (AU). He is also Director of Center for Genomics and Personalized Medicine, Leader of Aarhus Genome-data Center and Chair of the Personalized Medicine Network, AU.

His research focuses on identifying genes that confer risk or resilience to psychiatric disorders, functional characterization of the identified genes and translating the genetic insights to advance precision medicine in psychiatry. The research involves large-scale genomics studies of tens or hundreds of thousands of individuals, analyzing comprehensive multidimensional health and biological omics data.

Anders Børglum was the first Scientific Director and main applicant of the initial iPSYCH proposal on integrative psychiatric research, describing the main aims and overall activities for 9 years (2012-21). iPSYCH has established one of the largest psychiatric genetic projects in the world with a database comprising genetic data on practically all individuals diagnosed with 6 major psychiatric disorders born in Denmark since 1981, cross-linked with comprehensive health-related data from the Danish registers.

The scientific output from this program as of April 2023 included >1,100 papers, cited >52,000 times (WoS). More information on iPSYCH [here](#), and video from the opening ceremony (in Danish) [here](#).

In addition to his roles at AU, Anders Børglum is deeply engaged in the international Psychiatric Genomics Consortium (PGC), serving as Chair of the PGC Autism Group, member of the PGC Coordinating Committee and active in several PGC disorder groups.

Anders Børglum has led or co-led large genome-wide studies of major psychiatric disorders, including autism, ADHD, disruptive behavior disorders, schizophrenia, depression and cannabis use disorder, identifying the first common (and rare) risk variants for several of these disorders. His team has contributed to numerous other studies of mental disorders. The highly influential papers provide novel understanding of etiologies, biological underpinnings and the remarkable genetic overlap across disorders (see selected papers below).

CV (short) for ANDERS D. BØRGLUM, MD, PhD

Education

- 1990 Diploma in Medical Science from Aarhus University (AU).
- 1991 Medical Doctor (MD) from AU.
- 1996 PhD in Human Genetics from AU.
- 1996 "B-authorization" to conduct independent medical practice.

Positions

- 1989-90 Pre-graduate Research Fellow at Institute of Human Genetics, AU.
- 1991-95 Research Assistant, Institute of Human Genetics, AU.
- 1995-96 Internship, Silkeborg Central Hospital and Havndal Medical House.
- 1996-98 Assistant Research Professor, Institute of Human Genetics, AU.
- 1998-05 Associate Professor, Institute of Human Genetics, AU.
- 2003-11 Head of Institute of Human Genetics, AU.
- 2004-14 Research Consultant, AU Psychiatric Hospital

- 2005- Professor in Medical Genetics, Institute of Human Genetics (now Department of Biomedicine), AU
- 2012- Director, AU Interdisciplinary Centre for Integrative Sequencing, *i*SEQ
- 2017- Director, Center for Genomics and Personalized Medicine (CGPM), Aarhus and Central Denmark Region

Positions of trust

- Chair of the Autism Spectrum Disorder Working Group of the Psychiatric Genomics Consortium (PGC).
- Member of the PGC Coordinating Committee.
- Chair of Personalized Medicine Network, AU.
- Chair of Personalized Medicine Research Theme, Department of Biomedicine, AU
- Chair of HPC (High Performance Computing) Forum, AU.
- Member of the Danish National Genome Center's national advisory board for research and infrastructure.
- Member of the Steering Committee for CONNECT at AU Hospital.

Bibliographic overview

355 peer-reviewed publications. 6 patent applications. Publishing in major journals, e.g. Nature, Science, Nature Genetics, Nature Neuroscience, Nature Medicine, Cell, NEJM, Nat Commun, Nature Human Behaviour, Lancet Psych, Mol Psychiatry, Biol Psychiatry, Am J Hum Genet.

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Pubmed: <https://www.ncbi.nlm.nih.gov/pubmed/?term=borglum+a>

Total citations: 48,839; H-index: 89 (Google Scholar 29 Nov 2023)

PhD students & postdocs supervised

24 and 24, respectively.

Research management experience

- Head of Institute of Human Genetics for 8 years.
- Center director (*i*SEQ and CGPM) for 10 years.
- Chair of PGC Autism Group and member of the PGC Coordinating Committee
- PI in *i*PSYCH, co-leading around 150 *i*PSYCH researchers.
- Leader of Børglum Lab, an international and interdisciplinary team of medical, statistical and bioinformatical geneticists, computer scientists, statisticians and molecular biologists (currently 15 members, incl. 5 Ass Professors and 5 Postdocs).

Selected grants, awards and other qualifications

- PI (among 6 PIs) of *i*PSYCH and main applicant of first application receiving 121 mill DKK from the Lundbeck Foundation (LF) 2012-15. 2015-21, *i*PSYCH received additional 2x120 mill DKK from LF.
- Main applicant and Director of *i*SEQ center awarded 20 mill DKK from AU 2012-17. Extended 2017-2022 and expanded into the Center for Genomics and Personalized Medicine (basic budget: 6,15 mill DKK per year).
- Grants from Danish research councils, EU (FP7, H2020, H Europe) and NIMH on mental disorders.
- Bagger-Sørensen Prize 2023; Hjerrilds award for excellence in medical genetics research, 2006.
- Several invited talks at national and international congresses and meetings.
- Reviewer for several journals, incl top tier journals e.g. Science, Nature, Nature Genetics, Nature Neuroscience, Nature Human Behaviour. Guest editor for PNAS.
- Served on expert panels for the SFI Ireland and the Research Council for Health, Finland.

- Member and among the founders of the Nordic Society of Human Genetics and Precision Medicine.
- CEO and co-founder of the research spin-off company PsychoGenetics, 2008-2014
- Included in Krak's Blue Book (https://en.wikipedia.org/wiki/Kraks_Blå_Bog), 2014-

Selected publications since 2017

1. Als TD, Kurki M, Grove J, Voloudakis G, Therrien K, Tasanko E, Nielsen TT, Naamanka J, Veerapen K, Levey D, Bendl J, Bybjerg-Grauholm J, Zheng B, Demontis D, Rosengren A, Athanasiadis G, Bækved-Hansen M, Qvist P, Walters GB, Thorgeirsson T, Stefánsson H, Musliner KL, Rajagopal VM, Farajzadeh L, Thirstrup J, Vilhjálmsson BJ, McGrath JJ, Mattheisen M, Meier S, Agerbo E, Stefánsson K, Nordentoft M, Werge T, Hougaard DM, Mortensen PB, Stein MB, Gelernter J, Hovatta I, Roussos P, Daly MJ, Mors O, Palotie A, **Børglum AD**. Depression pathophysiology, risk prediction of recurrence and comorbid psychiatric disorders using genome-wide analyses. *Nature Medicine*, 55(2):198-208.
2. Demontis D, Walters GB, Athanasiadis G, Walters R, Therrien K, Nielsen TT, Farajzadeh L, Voloudakis G, Bendl J, Zeng B, Zhang W, Grove J, Als TD, Duan J, Satterstrom FK, Bybjerg-Grauholm J, Bækved-Hansen M, Gudmundsson OO, Magnusson SH, Baldursson G, Davidsdottir K, Haraldsdottir GS, Agerbo E, Hoffman GE, Dalsgaard S, Martin J, Ribasés M, Boomsma DI, Soler Artigas M, Roth Mota N, Howrigan D, Medland SE, Zayats T, Rajagopal VM; ADHD Working Group of the Psychiatric Genomics Consortium; iPSYCH-Broad Consortium; Nordentoft M, Mors O, Hougaard DM, Mortensen PB, Daly MJ, Faraone SV, Stefánsson H, Roussos P, Franke B, Werge T, Neale BM, Stefánsson K, **Børglum AD**. Genome-wide analyses of attention deficit hyperactivity disorder identify 27 risk loci, refine the genetic architecture, and implicate several cognitive domains. *Nature Genetics* 2023, 55(2):198-208.
3. Rajagopal VM, Duan J, Vilar-Ribó L, Grove J, Zayats T, Ramos-Quiroga JA, Satterstrom FK, Artigas MS, Bybjerg-Grauholm J, Bækvad-Hansen M, Als TD, Rosengren A, Daly MJ, Neale BM, Nordentoft M, Werge T, Mors O, Hougaard DM, Mortensen PB, Ribasés M, **Børglum AD**, Demontis D. Differences in the genetic architecture of common and rare variants in childhood, persistent and late-diagnosed attention-deficit hyperactivity disorder. *Nat Genet* 2022; 54(8):1117-1124.
4. Mattheisen, M.; Grove, J.; Als, T.D., Martin, J.; Voloudakis, G.; Meier, S.; Demontis, D.; Bendl, J.; Walters R.; Carey, C.E.; Rosengren, A.; Strom, N.I.; Hauberg, M.E.; Zeng, B.; Hoffman, G.; Zhang, W.; Bybjerg-Grauholm, J.; Bækvad-Hansen, M.; Agerbo, E.; Cormand, B.; Nordentoft, M.; Werge, T.; Mors, O.; Hougaard, D.M.; Buxbaum, J.D.; Faraone, S.V.; Franke, B.; Dalsgaard, S.; Mortensen, P.B.; Robinson, E.B.; Roussos, P.B.; Neale, B.M.; Daly, M.J.; **Børglum, A.D.** Identification of shared and differentiating genetic architecture for autism spectrum disorder, attention deficit hyperactivity disorder and case subgroups. *Nat Genet* 2022, 54(10):1470-1478.
5. Demontis, D.; Walters, R. K.; Rajagopal, V. M.; Waldman, I. D.; Grove, J.; Als, T. D.; Dalsgaard, S.; Ribasas, M.; Bybjerg-Grauholm, J.; Bækvad-Hansen, M.; Werge, T.; Nordentoft, M.; Mors, O.; Mortensen, P. B.; Working Group of the Psychiatric Genomics Consortium; Cormand, B.; Hougaard, D.; Neale, B. M.; Franke, B.; Faraone, S. V.; **Børglum, A. D.** Identification of risk variants and characterization of the polygenic architecture of disruptive behavior disorders in the context of ADHD. *Nat Commun* 2021, 12, 576.
6. Johnson, E. C.; Demontis, D.; Thorgeirsson, T. E.; Walters, R. K.; Polimanti, R.; Hatoum, A. S.; Sanchez-Roige, S.; Paul, S. E.; Wendt, F. R.; Clarke, T. K.; Lai, D.; Reginsson, G. W.; Zhou, H.; He, J.; Baranger, D. A. A.; Gudbjartsson, D. F.; Wedow, R.; Adkins, D. E.; Adkins, A. E.; Alexander, J.; Bacanu, S. A.; Bigdeli, T. B.; Boden, J.; Brown, S. A.; Bucholz, K. K.; Bybjerg-Grauholm, J.; Corley, R. P.; Degenhardt, L.; Dick, D. M.; Domingue, B. W.; Fox, L.; Goate, A. M.; Gordon, S. D.; Hack, L. M.; Hancock, D. B.; Hartz, S. M.; Hickie, I. B.; Hougaard, D. M.; Krauter, K.; Lind, P. A.; McClintick, J. N.; McQueen, M. B.; Meyers, J. L.; Montgomery, G. W.; Mors, O.; Mortensen, P. B.; Nordentoft, M.; Pearson, J. F.; Peterson, R. E.; Reynolds, M. D.; Rice, J. P.; Runarsdottir, V.; Saccone, N. L.; Sherva, R.; Silberg, J. L.; Tarter, R. E.; Tyrfingsson, T.; Wall, T. L.; Webb, B. T.; Werge, T.; Wetherill, L.; Wright, M. J.; Zellers, S.; Adams, M. J.; Bierut, L. J.; Boardman, J. D.; Copeland, W. E.; Farrer, L. A.; Foroud, T. M.; Gillespie, N. A.; Grucza, R. A.; Harris, K. M.; Heath, A. C.; Hesselbrock, V.;

- Hewitt, J. K.; Hopfer, C. J.; Horwood, J.; Iacono, W. G.; Johnson, E. O.; Kendler, K. S.; Kennedy, M. A.; Kranzler, H. R.; Madden, P. A. F.; Maes, H. H.; Maher, B. S.; Martin, N. G.; McGue, M.; McIntosh, A. M.; Medland, S. E.; Nelson, E. C.; Porjesz, B.; Riley, B. P.; Stallings, M. C.; Vanyukov, M. M.; Vrieze, S.; Davis, L. K.; Bogdan, R.; Gelernter, J.*; Edenberg, H. J.*; Stefansson, K.*; **Børglum, A. D.***; Agrawal, A.* (***co-senior authors**). A large-scale genome-wide association study meta-analysis of cannabis use disorder. *Lancet Psychiatry* **2020**, *7* (12), 1032-1045.
7. Satterstrom, F. K.; Kosmicki, J. A.; Wang, J.; Breen, M. S.; De Rubeis, S.; An, J. Y.; Peng, M.; Collins, R.; Grove, J.; Klei, L.; Stevens, C.; Reichert, J.; Mulhern, M. S.; Artomov, M.; Gerges, S.; Sheppard, B.; Xu, X.; Bhaduri, A.; Norman, U.; Brand, H.; Schwartz, G.; Nguyen, R.; Guerrero, E. E.; Dias, C.; Betancur, C.; Cook, E. H.; Gallagher, L.; Gill, M.; Sutcliffe, J. S.; Thurm, A.; Zwick, M. E.; **Børglum, A. D.**; State, M. W.; Cicek, A. E.; Talkowski, M. E.; Cutler, D. J.; Devlin, B.; Sanders, S. J.; Roeder, K.; Daly, M. J.; Buxbaum, J. D., Large-Scale Exome Sequencing Study Implicates Both Developmental and Functional Changes in the Neurobiology of Autism. *Cell* **2020**, *180* (3), 568-584.e23.
 8. Satterstrom, F. K.; Walters, R. K.; Singh, T.; Wigdor, E. M.; Lescai, F.; Demontis, D.; Kosmicki, J. A.; Grove, J.; Stevens, C.; Bybjerg-Grauholm, J.; Bækvad-Hansen, M.; Palmer, D. S.; Maller, J. B.; Nordentoft, M.; Mors, O.; Robinson, E. B.; Hougaard, D. M.; Werge, T. M.; Bo Mortensen, P.; Neale, B. M.; **Børglum, A. D.***; Daly, M. J.* (***co-senior authors**). Autism spectrum disorder and attention deficit hyperactivity disorder have a similar burden of rare protein-truncating variants. *Nat Neurosci* **2019**, *22* (12), 1961-1965.
 9. Grove, J.; Ripke, S.; Als, T. D.; Mattheisen, M.; Walters, R. K.; Won, H.; Pallesen, J.; Agerbo, E.; Andreassen, O. A.; Anney, R.; Awashti, S.; Belliveau, R.; Bettella, F.; Buxbaum, J. D.; Bybjerg-Grauholm, J.; Bækvad-Hansen, M.; Cerrato, F.; Chambert, K.; Christensen, J. H.; Churchhouse, C.; Dellenvall, K.; Demontis, D.; De Rubeis, S.; Devlin, B.; Djurovic, S.; Dumont, A. L.; Goldstein, J. I.; Hansen, C. S.; Hauberg, M. E.; Hollegaard, M. V.; Hope, S.; Howrigan, D. P.; Huang, H.; Hultman, C. M.; Klei, L.; Maller, J.; Martin, J.; Martin, A. R.; Moran, J. L.; Nyegaard, M.; Nærland, T.; Palmer, D. S.; Palotie, A.; Pedersen, C. B.; Pedersen, M. G.; dPoterba, T.; Poulsen, J. B.; Pourcain, B. S.; Qvist, P.; Rahnström, K.; Reichenberg, A.; Reichert, J.; Robinson, E. B.; Roeder, K.; Roussos, P.; Saemundsen, E.; Sandin, S.; Satterstrom, F. K.; Davey Smith, G.; Stefansson, H.; Steinberg, S.; Stevens, C. R.; Sullivan, P. F.; Turley, P.; Walters, G. B.; Xu, X.; Stefansson, K.; Geschwind, D. H.; Nordentoft, M.; Hougaard, D. M.; Werge, T.; Mors, O.; Mortensen, P. B.; Neale, B. M.; Daly, M. J.*; **Børglum, A. D.*** (***co-senior authors**). Identification of common genetic risk variants for autism spectrum disorder. *Nat Genet* **2019**, *51* (3), 431-444
 10. Demontis, D.; Walters, R. K.; Martin, J.; Mattheisen, M.; Als, T. D.; 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.; Hansen, C. S.; Hauberg, M. E.; Hollegaard, M. V.; Howrigan, D. P.; Huang, H.; Maller, J. B.; Martin, A. R.; Martin, N. G.; Moran, J.; Pallesen, J.; Palmer, D. S.; Pedersen, C. B.; Pedersen, M. G.; Poterba, T.; Poulsen, J. B.; Ripke, S.; Robinson, E. B.; Satterstrom, F. K.; Stefansson, H.; Stevens, C.; Turley, P.; Walters, G. B.; Won, H.; Wright, M. J.; Andreassen, O. A.; Asherson, P.; Burton, C. L.; Boomsma, D. I.; Cormand, B.; Dalsgaard, S.; Franke, B.; Gelernter, J.; Geschwind, D.; Hakonarson, H.; Haavik, J.; Kranzler, H. R.; Kuntsi, J.; Langley, K.; Lesch, K. P.; Middeldorp, C.; Reif, A.; Rohde, L. A.; Roussos, P.; Schachar, R.; Sklar, P.; Sonuga-Barke, E. J. S.; Sullivan, P. F.; Thapar, A.; Tung, J. Y.; Waldman, I. D.; Medland, S. E.; Stefansson, K.; Nordentoft, M.; Hougaard, D. M.; Werge, T.; Mors, O.; Mortensen, P. B.; Daly, M. J.; Faraone, S. V.*; **Børglum, A. D.***; Neale, B. M.* (***co-senior authors**). Discovery of the first genome-wide significant risk loci for attention deficit/hyperactivity disorder. *Nat Genet* **2019**, *51* (1), 63-75.
 11. Demontis, D.; Rajagopal, V. M.; Thorgeirsson, T. E.; Als, T. D.; Grove, J.; Leppälä, K.; Gudbjartsson, D. F.; Pallesen, J.; Hjorthøj, C.; Reginsson, G. W.; Tyrfinngsson, T.; Runarsdottir, V.; Qvist, P.; Christensen, J. H.; Bybjerg-Grauholm, J.; Bækvad-Hansen, M.; Huckins, L. M.; Stahl, E. A.; Timmermann, A.; Agerbo, E.; Hougaard, D. M.; Werge, T.; Mors, O.; Mortensen, P. B.; Nordentoft, M.; Daly, M. J.; Stefansson, H.; Stefansson, K.; Nyegaard, M.; **Børglum, A. D.** Genome-wide association study implicates *CHRNA2* in cannabis use disorder. *Nat Neurosci* **2019**, *22* (7), 1066-1074
 12. Wray, N. R.; Ripke, S.; Mattheisen, M.; Trzaskowski, M.; Byrne, E. M.; Abdellaoui, A.; Adams, M. J.; Agerbo, E.; Air, T. M.; Andlauer, T. M. F.; Bacanu, S. A.; Bækvad-Hansen, M.; Beekman, A. F. T.; Bigdeli, T. B.; Binder, E. B.; Blackwood, D. R. H.; Bryois, J.; Buttenschøn,

- H. N.; Bybjerg-Grauholm, J.; Cai, N.; Castelao, E.; Christensen, J. H.; Clarke, T. K.; Coleman, J. I. R.; Colodro-Conde, L.; Couvy-Duchesne, B.; Craddock, N.; Crawford, G. E.; Crowley, C. A.; Dashti, H. S.; Davies, G.; Deary, I. J.; Degenhardt, F.; Derks, E. M.; Direk, N.; Dolan, C. V.; Dunn, E. C.; Eley, T. C.; Eriksson, N.; Escott-Price, V.; Kiadeh, F. H. F.; Finucane, H. K.; Forstner, A. J.; Frank, J.; Gaspar, H. A.; Gill, M.; Giusti-Rodríguez, P.; Goes, F. S.; Gordon, S. D.; Grove, J.; Hall, L. S.; Hannon, E.; Hansen, C. S.; Hansen, T. F.; Herms, S.; Hickie, I. B.; Hoffmann, P.; Homuth, G.; Horn, C.; Hottenga, J. J.; Hougaard, D. M.; Hu, M.; Hyde, C. L.; Ising, M.; Jansen, R.; Jin, F.; Jorgenson, E.; Knowles, J. A.; Kohane, I. S.; Kraft, J.; Kretzschmar, W. W.; Krogh, J.; Kutalik, Z.; Lane, J. M.; Li, Y.; Li, Y.; Lind, P. A.; Liu, X.; Lu, L.; MacIntyre, D. J.; MacKinnon, D. F.; Maier, R. M.; Maier, W.; Marchini, J.; Mbarek, H.; McGrath, P.; McGuffin, P.; Medland, S. E.; Mehta, D.; Middeldorp, C. M.; Mihailov, E.; Milaneschi, Y.; Milani, L.; Mill, J.; Mondimore, F. M.; Montgomery, G. W.; Mostafavi, S.; Mullins, N.; Nauck, M.; Ng, B.; Nivard, M. G.; Nyholt, D. R.; O'Reilly, P. F.; Oskarsson, H.; Owen, M. J.; Painter, J. N.; Pedersen, C. B.; Pedersen, M. G.; Peterson, R. E.; Pettersson, E.; Peyrot, W. J.; Pistis, G.; Posthuma, D.; Purcell, S. M.; Quiroz, J. A.; Qvist, P.; Rice, J. P.; Riley, B. P.; Rivera, M.; Saeed Mirza, S.; Saxena, R.; Schoevers, R.; Schulte, E. C.; Shen, L.; Shi, J.; Shyn, S. I.; Sigurdsson, E.; Sinnamon, G. B. C.; Smit, J. H.; Smith, D. J.; Stefansson, H.; Steinberg, S.; Stockmeier, C. A.; Streit, F.; Strohmaier, J.; Tansey, K. E.; Teismann, H.; Teumer, A.; Thompson, W.; Thomson, P. A.; Thorgeirsson, T. E.; Tian, C.; Traylor, M.; Treutlein, J.; Trubetskov, V.; Uitterlinden, A. G.; Umbricht, D.; Van der Auwera, S.; van Hemert, A. M.; Viktorin, A.; Visscher, P. M.; Wang, Y.; Webb, B. T.; Weinsheimer, S. M.; Wellmann, J.; Willemsen, G.; Witt, S. H.; Wu, Y.; Xi, H. S.; Yang, J.; Zhang, F.; Arold, V.; Baune, B. T.; Berger, K.; Boomsma, D. I.; Cichon, S.; Dannlowski, U.; de Geus, E. C. J.; DePaulo, J. R.; Domenici, E.; Domschke, K.; Esko, T.; Grabe, H. J.; Hamilton, S. P.; Hayward, C.; Heath, A. C.; Hinds, D. A.; Kendler, K. S.; Kloiber, S.; Lewis, G.; Li, Q. S.; Lucae, S.; Madden, P. F. A.; Magnusson, P. K.; Martin, N. G.; McIntosh, A. M.; Metspalu, A.; Mors, O.; Mortensen, P. B.; Müller-Myhsok, B.; Nordentoft, M.; Nöthen, M. M.; O'Donovan, M. C.; Paciga, S. A.; Pedersen, N. L.; Penninx, B.; Perlis, R. H.; Porteous, D. J.; Potash, J. B.; Preisig, M.; Rietschel, M.; Schaefer, C.; Schulze, T. G.; Smoller, J. W.; Stefansson, K.; Tiemeier, H.; Uher, R.; Völzke, H.; Weissman, M. M.; Werge, T.; Winslow, A. R.; Lewis, C. M.*; Levinson, D. F.*; Breen, G.*; **Børglum, A. D.***; Sullivan, P. F.* (***co-senior authors**). Genome-wide association analyses identify 44 risk variants and refine the genetic architecture of major depression. *Nat Genet* **2018**, *50* (5), 668-681.
13. Maretty, L.; Jensen, J. M.; Petersen, B.; Sibbesen, J. A.; Liu, S.; Villesen, P.; Skov, L.; Belling, K.; Theil Have, C.; Izarzugaza, J. M. G.; Grosjean, M.; Bork-Jensen, J.; Grove, J.; Als, T. D.; Huang, S.; Chang, Y.; Xu, R.; Ye, W.; Rao, J.; Guo, X.; Sun, J.; Cao, H.; Ye, C.; van Beusekom, J.; Espeseth, T.; Flindt, E.; Friborg, R. M.; Halager, A. E.; Le Hellard, S.; Hultman, C. M.; Lescai, F.; Li, S.; Lund, O.; Løngren, P.; Mailund, T.; Matey-Hernandez, M. L.; Mors, O.; Pedersen, C. N. S.; Sicheritz-Pontén, T.; Sullivan, P.; Syed, A.; Westergaard, D.; Yadav, R.; Li, N.; Xu, X.; Hansen, T.; Krogh, A.; Bolund, L.; Sørensen, T. I. A.; Pedersen, O.; Gupta, R.; Rasmussen, S.*; Besenbacher, S.*; **Børglum, A. D.***; Wang, J.*; Eiberg, H.*; Kristiansen, K.*; Brunak, S.*; Schierup, M. H.* (***co-senior authors**). Sequencing and de novo assembly of 150 genomes from Denmark as a population reference. *Nature* **2017**, *548* (7665), 87-91
14. Trubetskov, V. *et al.* Mapping genomic loci implicates genes and synaptic biology in schizophrenia. *Nature* **2022**, 502-508, doi:10.1038/s41586-022-04434-5 (2022).
15. Singh, T. *et al.* Rare coding variants in ten genes confer substantial risk for schizophrenia. *Nature* **2022**, 509-516, doi:10.1038/s41586-022-04556-w (2022)
16. Grotzinger, A. D. *et al.* Genetic architecture of 11 major psychiatric disorders at biobehavioral, functional genomic and molecular genetic levels of analysis. *Nat Genet* **2022**, 548-559, doi:10.1038/s41588-022-01057-4 (2022).
17. Warriar, V. *et al.* Genetic correlates of phenotypic heterogeneity in autism. *Nat Genet* **2022**, doi:10.1038/s41588-022-01072-5 (2022)

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