Virtual histology of cortical thickness reveals shared neurobiology underlying six psychiatric disorders

Acknowledgements by contributor

Yash Patel: Supported by the National Sciences and Engineering Research Council of Canada – Canada Graduate Scholarship (CGSD3; Doctoral level).

Leon French: supported by the CAMH Foundation and a National Science and Engineering Research Council of Canada (NSERC) Discovery Grant to LF.

Sophia I. Thomopoulos: NIH Grant U54 EB020403

Christoph Abé: The St. Göran project (SBP) is supported by grants from the Swedish Research Council (2018-02653), the Swedish foundation for Strategic Research (KF10-0039), and the Swedish Federal Government under the LUA/ALF agreement (ALF 20170019, ALFGBG-716801).

Silvia Alonso-Lana: This work was supported by the Generalitat de Catalunya (2017SGR1271) and several grants funded by Instituto de Salud Carlos III (Co-funded by the European Regional Development Fund/European Social Fund) “Investing in your future”: Miguel Servet Research Contract (CPII16/00018 to EP-C), Sara Borrell Research Contract (CD18/00029 to EJC-R), and Research Projects (PI18/00810 to EP-C and P18/00877 to RS).

Evdokia Anagnostou: Funded by the Ontario Brain Institute (IDS-I-I-02, Anagnostou, Lerch)


Paul D. Arnold: The study was funded by the Ontario Brain Institute and the Alberta Innovates Translational Health Chair in Child and Youth Mental Health

Philip Asherson: NIHR Biomedical Research Centre for Mental Health, NIHR/MRC (14/23/17) and NIHR senior investigator award (NF-SI-0616-10040).

Geor Bakker: Funded by Dutch Organization for Health Research and Development by personal grant to Prof. Therese van Amelsvoort (ZonMV-VIDI: 91712394)

Tobias Banaschewski: The Neurofeedback study was partly funded by the project D8 of the Deutsche Forschungsgesellschaft collaborative research center 636.

Claiton HD. Bau: CNPq grants 466722/2014-1 and 424041/2016-2; CAPES grant code 001; FIPE-HCPA project 160600.

Sarah Baumeister: The Neurofeedback study was partly funded by the project D8 of the Deutsche Forschungsgesellschaft collaborative research center 636.

Mark A. Bellgrove: MAB is supported by a NHMRC Senior Research Fellowship.
Caterina del Mar Bonnin: This work was supported by the Spanish Ministry of Science, Innovation and Universities / Economy and Competitiveness / Instituto de Salud Carlos III (PI15/00283, CPII19/00009), co-financed by ERDF Funds from the European Commission (“A Way of Making Europe”), CIBERSAM, and the Departament de Salut de la Generalitat de Catalunya (2017SGR1365, SLT002/16/00331, SLT006/17/00357), CERCA Programme/Generalitat de Catalunya.

Daniel Brandeis: The Neurofeedback study was partly funded by the project D8 of the Deutsche Forschungsgesellschaft collaborative research center 636.

Geraldo F. Busatto: The Sao Paulo (Brazil) studies have been supported by grants from FAPESP-Brazil (#2009/14891-9, 2010/18672-7, 2012/23796-2 and 2013/03905-4), CNPq-Brazil (#478466/2009 and 480370/2009), the Wellcome Trust (UK) and the Brain & Behavior Research Foundation (2010 NARSAD Independent Investigator Award granted to GFB).

Sara Calderoni: This work was also partially supported by grants from the IRCCS Stella Maris Foundation (Ricerca Corrente, and the “5 1000” voluntary contributions, Italian Ministry of Health)

Vince D. Calhoun: COBRE was supported by NIH COBRE grants 1P20RR021938 and P20GM103472, the MCIC was supported by DOE grant DE-FG02-99ER62764

Rosa Calvo: This work was supported by the Spanish Ministry of Science, Innovation and Universities / Economy and Competitiveness / Instituto de Salud Carlos III (PI09/1588), co-financed by ERDF Funds from the European Commission (“A Way of Making Europe”) and Fundació la Marató de TV-3 (091510)

Erick J. Canales-Rodríguez: This work was supported by the Generalitat de Catalunya (2017SGR1271) and several grants funded by Instituto de Salud Carlos III (Co-funded by the European Regional Development Fund/European Social Fund) “Investing in your future”: Miguel Servet Research Contract (CPII16/00018 to EP-C), Sara Borrell Research Contract (CD18/00029 to EJC-R), and Research Projects (PI18/00810 to EP-C and PI18/00877 to RS).

Dara M. Cannon: This research was funded by the Health Research Board (HRA-POR-324) awarded to Dara M Cannon PhD

Annette Conzelmann: DFG KFO 125

Kathryn R. Cullen: The study was funded by the National Institute of Mental Health (K23MH090421), the National Alliance for Research on Schizophrenia and Depression, the University of Minnesota Graduate School, the Minnesota Medical Foundation, and the Biotechnology Research Center (P41 RR008079 to the Center for Magnetic Resonance Research), University of Minnesota, and the Deborah E. Powell Center for Women’s Health Seed Grant, University of Minnesota

Udo Dannlowski: This work was funded by the German Research Foundation (DFG, grant FOR2107 DA1151/5-1 and DA1151/5-2 to UD; SFB-TRR58, Projects C09 and Z02 to UD) and the Interdisciplinary Center for Clinical Research (IZKF) of the medical faculty of Münster (grant Dan3/012/17 to UD).

Danai Dima: This work was partially funded by the National Institute for Health Research (NIHR) Biomedical Research Centre for Mental Health at South London and Maudsley NHS Foundation Trust and King’s College London.

Mar Fatjó-Vilas : This work was supported by the Generalitat de Catalunya (2017SGR1271) and several grants funded by Instituto de Salud Carlos III (Co-funded by the European Regional Development Fund/European Social Fund) “Investing in your future”: Miguel Servet Research Contract (CPII16/00018 to EP-C), Sara Borrell Research Contract (CD18/00029 to EJC-R), and Research Projects (PI18/00810 to EP-C and PI18/00877 to RS).
L. E. Hong: MPRC and Huilong cohorts were supported by the NIH grants R01MH112180, R01MH116948, S10OD023696, R01EB015611, and U01MH108148 and National Key R & D Program of China (2016YFC1307000), National Natural Science Foundation of China grants 81071086 and 81461130016

Cyril Höschl: The National Institute of Mental Health, Klecany, Czech Republic was supported by project No. LO1611 with funding from the MEYS under the NPU I program

Fleur M. Howells: CIAM study was funding by the Univerristy of Cape Town’s Research Committee and national funding bodies, the National Research Foundation and Medical Research Council

Maria Jalbrzikowski: The study was funded by the National Institute of Mental Health (K01MH112774)

Fern Jaspers-Fayer: This work was supported by the Michael Smith Foundation for Health Research, the BC Mental Health and Addictions Research Institute, and the BC Children’s Hospital Research Foundation.

Tilo Kircher: funded by the German Research Foundation (Deutsche Forschungsgemeinschaft DFG; Forschungsgruppe/Research Unit FOR2107) grant nos. KI 588/14-1, KI 588/14-2

Matthias Kirschner: National Bank Fellowship (McGill University) and Swiss National Science Foundation (P2SKP3_178175) to MK

Kathrin Koch: DFG KO 3744/7-1

Peter Kochunov: MPRC and Huilong cohorts were supported by the NIH grants R01MH112180, R01MH116948, S10OD023696, R01EB015611, and U01MH108148 and National Key R & D Program of China (2016YFC1307000), National Natural Science Foundation of China grants 81071086 and 81461130016

Jun Soo Kwon: This research was supported by the Brain Research Program through the National Research Foundation of Korea (NRF) funded by the Ministry of Science and ICT (2019R1A2B5B03100844).

Mikael Landén: The St. Göran project (SBP) is supported by grants from the Swedish Research Council (2018-02653), the Swedish foundation for Strategic Research (KF10-0039), and the Swedish Federal Government under the LUA/ALF agreement (ALF 20170019, ALFGBG-716801).

Luisa Lazaro: This work was supported by the Spanish Ministry of Science, Innovation and Universities / Economy and Competitiveness / Instituto de Salud Carlos III (PI09/1588), co-financed by ERDF Funds from the European Commission (“A Way of Making Europe”) and Fundació la Marató de TV-3 (01/2010, 091710, 091510)

Sara Lera-Miguel: This work was supported by the Spanish Ministry of Science, Innovation and Universities / Economy and Competitiveness / Instituto de Salud Carlos III (PI11/01419), co-financed by Fundació la Marató de TV-3 (091810)

Christine Lochner: Supported by the Medical Research Council of South Africa.

Frank P. MacMaster: This work was supported by the Canadian Insituites for Health Research, the Branch Out Neurological Foundation, and the Alberta Children's Hospital Foundation

Portella J. Maria: Carlos III Health Institute (PI13/01057, CPII16/00020); Department of Health, Generalitat de Catalunya (PERIS SLT006/17/177)

Fiona M. Martyn: This research was funded by the Health Research Board (HRA-POR-324) awarded to Dara M Cannon PhD

David Mataix-Cols: Funded by the Wellcome Trust and a pump priming grant from the South London and Maudsley Trust, London, UK (Project grant no. 064846)
Hazel McCarthy: This work was founded by Health Research Board Ireland
Colm McDonald: This research was funded by the Health Research Board (HRA-POR-324) awarded to Dara M Cannon PhD
Genevieve McPhilemey: This research was funded by the Health Research Board (HRA-POR-324) awarded to Dara M Cannon PhD
José M. Menchón: AGAUR, Generalitat de Catalunya (2017SGR1247)
Philip B. Mitchell: Australian National Medical and Health Research Council (Program Grant 1037196), the Lansdowne Foundation, Good Talk and the Keith Pettigrew Family Bequest
Pedro Morgado: This work was partially funded by the FEDER funds, through the Competitiveness Factors Operational Programme (COMPETE), and by national funds, through the Foundation for Science and Technology (FCT), under the scope of the project POCI-01-0145-FEDER-007038. This manuscript has been developed under the scope of the project NORTE-01-0145-FEDER-000013, supported by the Northern Portugal Regional Operational Programme (NORTE 2020), under the Portugal 2020 Partnership Agreement, through the European Regional Development Fund (FEDER).
Filippo Muratori: This work was also partially supported by grants from the IRCCS Stella Maris Foundation (Ricerca Corrente, and the “5 1000” voluntary contributions, Italian Ministry of Health)
Declan Murphy: This work was supported by National Institute for Health Research (NIHR) Biomedical Research Centre for Mental Health at South London and Maudsley NHS Foundation Trust and Institute of Psychiatry, Psychology and Neuroscience King’s College London and by the Innovative Medicines Initiative Joint Undertaking under grant agreement number 115300 (EU AIMS) and 777394 (AIMS-2-TRIALS), from the European Union’s Seventh Framework Programme and Horizon2020 programs
Leila Nabulsi: This research was funded by the Health Research Board (HRA-POR-324) awarded to Dara M Cannon PhD
Janardhanan Narayanaswamy: This work was supported by the Government of India grants to Dr. Narayanaswamy (DST INSPIRE faculty grant -IFA12-LSBM-26) and (BT/06/IB/2012)
Danai D. Nguyen: FBIRN: The FBIRN study was supported by the National Center for Research Resources at the National Institutes of Health (NIH 1 U24 RR021992 (Function Biomedical Informatics Research Network) and NIH 1 U24 RR025736-01 (Biomedical Informatics Research Network Coordinating Center; http://www.birncommunity.org). UCISZ: The UCISZ study was supported by the National Institutes of Mental Health grant number R21MH097196 to TGMvE. FBIRN and UCISZ data was processed by the UCI High Performance Computing cluster supported by Joseph Farran, Harry Mangalam, and Adam Brenner and the National Center for Research Resources and the National Center for Advancing Translational Sciences, National Institutes of Health, through Grant UL1 TR000153. TGMvE is supported by ENIGMA's NIH Big Data to Knowledge (BD2K) initiative U54 EB020403, ENIGMA Sex Differences R01MH116147, and ENIGMA-COINSTAC: Advanced Worldwide Transdiagnostic Analysis of Valence System Brain Circuits R01MH121246.
Rosa Nicolau: This work was supported by the Spanish Ministry of Science, Innovation and Universities / Economy and Competitiveness / Instituto de Salud Carlos III (PI11/01419), co-financed by Fundació la Marató de TV-3 (091810)
Ruth L. O’Gorman Tuura: This work was supported by the University Research Priority Program “Integrative Human Physiology” at the University of Zurich.

Kirsten O’Hearn: This work was supported by K01 MH081191 from NIMH.

Roel A. Ophoff: This study was supported by NIMH grant number: R01 MH090553

Bronwyn J. Overs: Australian NHMRC Program Grant 1037196 and Project Grants 1063960 and 1066177.

Paul Pauli: DFG KFO 125

Maria Picó-Pérez: This work was partially funded by the FEDER funds, through the Competitiveness Factors Operational Programme (COMPETE), and by national funds, through the Foundation for Science and Technology (FCT), under the scope of the project POCI-01-0145-FEDER-007038. This manuscript has been developed under the scope of the project NORTE-01-0145-FEDER-000013, supported by the Northern Portugal Regional Operational Programme (NORTE 2020), under the Portugal 2020 Partnership Agreement, through the European Regional Development Fund (FEDER).

Fabrizio Piras: This work was supported by the Italian Ministry of Health, Grants RC 15,16,17,18,19/A.

Edith Pomarol-Clotet: This work was supported by the Generalitat de Catalunya (2017SGR1271) and several grants funded by Instituto de Salud Carlos III (Co-funded by the European Regional Development Fund/European Social Fund) “Investing in your future”: Miguel Servet Research Contract (CPII16/00018 to EP-C), Sara Borrell Research Contract (CD18/00029 to EJC-R), and Research Projects (PI18/00810 to EP-C and PI18/00877 to RS).

Adrian Preda: FBIRN: The FBIRN study was supported by the National Center for Research Resources at the National Institutes of Health (NIH 1 U24 RR021992 (Function Biomedical Informatics Research Network) and NIH 1 U24 RR025736-01 (Biomedical Informatics Research Network Coordinating Center; http://www.birncommunity.org). UCISZ: The UCISZ study was supported by the National Institutes of Mental Health grant number R21MH097196 to TGMvE. FBIRN and UCISZ data was processed by the UCI High Performance Computing cluster supported by Joseph Farran, Harry Mangalam, and Adam Brenner and the National Center for Research Resources and the National Center for Advancing Translational Sciences, National Institutes of Health, through Grant UL1 TR000153. TGMvE is supported by ENIGMA’s NIH Big Data to Knowledge (BD2K) initiative U54 EB020403, ENIGMA Sex Differences R01MH116147, and ENIGMA-COINSTAC: Advanced Worldwide Transdiagnostic Analysis of Valence System Brain Circuits R01MH121246.

Olga Puig: This work was supported by the Spanish Ministry of Science, Innovation and Universities / Economy and Competitiveness / Instituto de Salud Carlos III (PI09/1588), co-financed by ERDF Funds from the European Commission (“A Way of Making Europe”) and Fundació la Marató de TV-3 (091510) Joaquim Radua: This work was supported by the Spanish Ministry of Science, Innovation and Universities / Economy and Competitiveness / Instituto de Salud Carlos III (PI15/00283, CPII19/00009), co-financed by ERDF Funds from the European Commission (“A Way of Making Europe”), CIBERSAM, and the Departament de Salut de la Generalitat de Catalunya (2017SGR1365, SLT002/16/00331, SLT006/17/00357), CERCA Programme/Generalitat de Catalunya.

J. Antoni Ramos-Quiroga: This work was supported by the Ministerio de Economía y Competitividad research grant (SAF2012-32362).

Janardhan Reddy: This work was supported by the Government of India grants to Dr. Reddy (SR/S0/HS/0016/2011) and no.BT/PR13334/Med/30/259/2009.

Andreas Reif: This work was supported by the DFG KFO 125 and the European Commission, grant #667302 "CoCA"
Vanesa Richarte: This work was supported by the Ministerio de Economía y Competitividad research grant (SAF2012-32362).
Raymond Salvador: This work was supported by the Generalitat de Catalunya (2017SGR1271) and several grants funded by Instituto de Salud Carlos III (Co-funded by the European Regional Development Fund/European Social Fund) “Investing in your future”: Miguel Servet Research Contract (CPII16/00018 to EP-C), Sara Borrell Research Contract (CD18/00029 to EJC-R), and Research Projects (PI18/00810 to EP-C and PI18/00877 to RS).
Salvador Sarró: This work was supported by the Generalitat de Catalunya (2017SGR1271) and several grants funded by Instituto de Salud Carlos III (Co-funded by the European Regional Development Fund/European Social Fund) “Investing in your future”: Miguel Servet Research Contract (CPII16/00018 to EP-C), Sara Borrell Research Contract (CD18/00029 to EJC-R), and Research Projects (PI18/00810 to EP-C and PI18/00877 to RS).
Akira Sawa: funded by MH-094268 Silvio O. Conte center (A.S.)
Tim J. Silk: ACPU: This research was conducted within the Academic Child Psychiatry Unit, University of Melbourne, Royal Children’s Hospital and the Developmental Imaging research group, Murdoch Children’s Research Institute, Melbourne, Victoria. National Health and Medical Research Council of Australia (NHMRC) project grants 384419 and 569533 provided funds for the data collection. It was also supported by the Murdoch Children’s Research Institute, the Royal Children’s Hospital and the Children’s MRI Centre, The Royal Children’s Hospital Foundation, and the RCH Mental Health Service, Department of Paediatrics The University of Melbourne and the Victorian Government's Operational Infrastructure Support Program. Tim Silk was supported by a NHMRC Career Development Award.
NICAP: The study was funded by the National Medical Health and Research Council of Australia (NHMRC; project grant #1065895). Earlier funding of the Children’s Attention Project was as funded by an NHMRC project grant #1008522 and a grant from the Collier Foundation. This research was conducted within the Developmental Imaging research group, Murdoch Children’s Research Institute and the Children’s MRI Centre, The Royal Children’s Hospital, Melbourne, Victoria. It was supported by the Murdoch Children’s Research Institute, The Royal Children’s Hospital, The Royal Children’s Hospital Foundation, Department of Paediatrics at The University of Melbourne and the Victorian Government’s Operational Infrastructure Support Program. We would like to acknowledge other investigators: Emma Sciberras, Daryl Efron, Vicki Anderson, Jan M. Nicholson, Philip Hazell, and all the staff and students of the Children’s Attention Project, as well as the RCH Medical Imaging staff for their assistance and expertise in the collection of the MRI data included in this study. We would also like to thank all of the many families and schools for their participation in this study.
Kang Sim: The project was supported by the Singapore Bioimaging Consortium Research Grant (SBIC RP C-009/2006) and NHG grant (SIG/15012)
Antonin Skoch: The National Institute of Mental Health, Klecany, Czech Republic was supported by project No. LO1611 with funding from the MEYS under the NPU I program
Carles Soriano-Mas: Carlos III Health Institute (PI16/00889, CPII16/00048); Department of Health, Generalitat de Catalunya (PERIS SLT006/17/249)
Gianfranco Spalletta: This work was supported by the Italian Ministry of Health, Grants RC 15,16,17,18,19/A
Filip Spaniel: The National Institute of Mental Health, Klecany, Czech Republic was supported by project No. LO1611 with funding from the MEYS under the NPU I program
S. Evelyn Stewart: This work was supported by the Michael Smith Foundation for Health Research, the BC Mental Health and Addictions Research Institute, and the BC Children's Hospital Research Foundation.

Henk S. Temmingh: CIAM study was funding by the University of Cape Town's Research Committee and national funding bodies, the National Research Foundation and Medical Research Council

David Tomecek: The National Institute of Mental Health, Kecany, Czech Republic was supported by project No. LO1611 with funding from the MEYS under the NPU I program

Diana Tordesillas-Gutiérrez: This work was supported by the Instituto de Salud Carlos III (PI14/00639 and PI14/00918) and Fundación Instituto de Investigación Marqués de Valdecilla (NCT0235832 and NCT02534363). Dr. Rosa Ayesa-Arriola is funded by a Miguel Servet contract from the Carlos III Health Institute (CP18/00003). No pharmaceutical company has financially supported the study.

Anne Uhlmann: CIAM study was funding by the University of Cape Town's Research Committee and national funding bodies, the National Research Foundation and Medical Research Council

Therese van Amelsvoort: Funded by Dutch Organization for Health Research and Development by personal grant to Prof. Therese van Amelsvoort (ZonMV-VIDI: 91712394)

Neeltje EM. van Haren: This study was supported by NIMH grant number: R01 MH090553 (to RAO)

Ganesan Venkatasubramanian: This work was supported by the Wellcome-DBT India Alliance grant to Dr. venkatasubramanian (500236/Z/11/Z)

Eduard Vieta: This work was supported by the Spanish Ministry of Science, Innovation and Universities / Economy and Competitiveness / Instituto de Salud Carlos III (PI15/00283, CPI19/00009), co-financed by ERDF Funds from the European Commission (“A Way of Making Europe”), CIBERSAM, and the Departament de Salut de la Generalitat de Catalunya (2017SGR1365, SLT002/16/00331, SLT006/17/00357), CERCA Programme/Generalitat de Catalunya.

Oscar Vilarroya: This work was supported by the Ministerio de Economía y Competitividad research grant (SAF2012-32362).

Henry Völzke: SHIP is part of the Community Medicine Research Network of the University Medicine Greifswald, which is supported by the German Federal State of Mecklenburg-West Pomerania.

Cynthia Shannon Weickert: National Health and Medical Research Council (NHMRC) of Australia Project Grant no. 568807

Andrea S. Weideman: FBIRN: The FBIRN study was supported by the National Center for Research Resources at the National Institutes of Health (NIH 1 U24 RR021992 (Function Biomedical Informatics Research Network) and NIH 1 U24 RR025736-01 (Biomedical Informatics Research Network Coordinating Center; http://www.birncommunity.org). UCISZ: The UCISZ study was supported by the National Institutes of Mental Health grant number R21MH097196 to TGMvE. FBIRN and UCISZ data was processed by the UCI High Performance Computing cluster supported by Joseph Farran, Harry Mangalam, and Adam Brenner and the National Center for Research Resources and the National Center for Advancing Translational Sciences, National Institutes of Health, through Grant UL1 TR000153. TGMvE is supported by ENIGMA's NIH Big Data to Knowledge (BD2K) initiative U54 EB020403, ENIGMA Sex Differences R01MH116147, and ENIGMA-COINSTAC: Advanced Worldwide Transdiagnostic Analysis of Valence System Brain Circuits R01MH121246.

Katharina Wittfeld: SHIP is part of the Community Medicine Research net of the University of Greifswald, Germany, which is funded by the Federal Ministry of Education and Research (grants no. 01ZZ9603, 01ZZ0103, and 01ZZ0403), the Ministry of Cultural Affairs and the Social Ministry of the
Federal State of Mecklenburg-West Pomerania. MRI scans in SHIP and SHIP-TREND have been supported by a joint grant from Siemens Healthineers, Erlangen, Germany and the Federal State of Mecklenburg-West Pomerania.

T.T. Yang: Receive support through the National Center for Complementary and Integrative Health (NCCIH) R21AT009173 and R61AT009864, the American Foundation for Suicide Prevention, NIMH and the National Center for Advancing Translational Sciences, National Institutes of Health, through UCSF-CTSI Grant Number UL1TR001872.

Martine Hoogman: Martine Hoogman is supported by a personal Veni grant for the Netherlands Organization for Scientific Research (grant no: 91619115)

Buitelaar K. Jan: This work has been supported by the EU-AIMS (European Autism Interventions) and AIMS-2-TRIALS programmes which receive support from Innovative Medicines Initiative Joint Undertaking Grant No. 115300 and 777394, the resources of which are composed of financial contributions from the European Union, A's FP7 and Horizon2020 Programmes, and from the European Federation of Pharmaceutical Industries and Associations (EFPIA) companies, A's in-kind contributions, and AUTISM SPEAKS, Autistica and SFARI.

Lianne Schmaal: ENIGMA MDD work is supported by NIH grants U54 EB020403 (Thompson), R01 MH116147 (Thompson) and R01 MH117601 (Jahanshad & Schmaal). LS was supported by an NHMRC Career Development Fellowship (1140764).

Theo GM. van Erp: FBIRN: The FBIRN study was supported by the National Center for Research Resources at the National Institutes of Health (NIH 1 U24 RR021992 (Function Biomedical Informatics Research Network) and NIH 1 U24 RR025736-01 (Biomedical Informatics Research Network Coordinating Center; http://www.birncommunity.org). UCISZ: The UCISZ study was supported by the National Institutes of Mental Health grant number R21MH097196 to TGMvE. FBIRN and UCISZ data was processed by the UCI High Performance Computing cluster supported by Joseph Farran, Harry Mangalam, and Adam Brenner and the National Center for Research Resources and the National Center for Advancing Translational Sciences, National Institutes of Health, through Grant UL1 TR000153. TGMvE is supported by ENIGMA's NIH Big Data to Knowledge (BD2K) initiative U54 EB020403, ENIGMA Sex Differences R01MH116147, and ENIGMA-COINSTAC: Advanced Worldwide Transdiagnostic Analysis of Valence System Brain Circuits R01MH121246.

Paul M. Thompson: NIH Grant U54 EB020403