

Daniel S. Margulies

Centre national de la recherche scientifique (CNRS)
Integrative Neuroscience & Cognition Center (INCC – UMR 8002)
University of Paris
Bureau H440
45, rue des Saints Pères
75006 Paris, France

email: daniel.margulies@cnrs.fr
homepage: www.neuroconnlab.org
ORCID: orcid.org/0000-0002-8880-9204
Lab Github: github.com/NeuroanatomyAndConnectivity

mob: +33 (0) 7 67 76 73 07
tel: +33 (0) 1 57 27 41 37

Research Interests

My research investigates the organization of large-scale brain networks, primarily through the analysis of intrinsic activity as measured with functional magnetic resonance imaging (fMRI). I have developed approaches to define subregions within complex cortical areas, conducted cross-species comparative neuroanatomical studies, and related variation in these networks to phenotypic differences across individuals. My current research addresses the emergence of network topography and its relationship to cortical structure.

Academic Appointments

2020– CNRS Research Director, [UMR 8002, Integrative Neuroscience & Cognition Center](#), University of Paris
2018–2020 Tenured CNRS Researcher, PI, [CNRS UMR 7225, Institut du Cerveau et de la Moelle Epinière](#), Paris
2012–2017 Faculty, [International Max Planck Research School on Neuroscience of Communication](#), Leipzig
2011–2017 Group Leader (W2 Professor), [Max Planck Research Group for Neuroanatomy & Connectivity](#), Leipzig
2009–2011 Postdoc, Department of Neurology, [Max Planck Institute for Human Cognitive and Brain Sciences](#), Leipzig

Education

2018 HDR [Sorbonne Université](#), Paris
2010 PhD [Humboldt Universität zu Berlin](#)
2008 MA [European Graduate School](#), Saas Fee, Switzerland
2005 BA [New York University](#)

Funding

2020–2025	PI	ERC Consolidator Grant (CORTIGRAD), European Research Council	2M€
2019–2021	PI	Projet international de coopération scientifique (PICS), CNRS	21K€
2015–2016	Site-PI	Volkswagen Foundation, Hannover	395K(total)/50K(site)€
2014–2016	Co-PI	The Hub at Wellcome Collection, Wellcome Trust, London	£1M
2011–2017	PI	Max Planck Independent Research Group, Max Planck Society	1.9M€
2011	Co-I	Quebec Bio-Imaging Network	CAD\$14K CAD

Awards

2018 [Young Investigator Award](#) Organization for Human Brain Mapping
2010 [Otto Hahn Medal](#) Max Planck Society

Mentoring & Supervision

Postdocs	Doctoral Students	Awarded:	Masters Students	Awarded:
Marcel Falkiewicz (2015–2017)	Julia Huntenburg	2017	Anton Benz (co-supervised)	2020
Franz Liem (2015–2016)	Johannes Golchert	2017	Arabella Bouzigues (co-sup)	2020
Melissa Ellamil (2015–2016)	Estrid Jakobsen	2017	Julia Huntenburg	2014
Manousos Klados (2014–2016)	Xiangyu Long	2015	Sabine Oligschläger	2014
Chris Gorgolewski (2013–2015)	Alexander Schaefer	2015		
Alexandros Goulas (2013–2015)	Judy Kipping	2015	Bachelors Students	
Joachim Böttger (2012–2014)	Yating Lv	2013	Anastasia Osoianu	2016

Academic Service

Editorial boards

2020–	Handling Editor	<i>Aperture</i>
2020–	Associate Editor	<i>Frontiers in Neuroanatomy</i>
2019–	Associate Editor	<i>Frontiers in Human Neuroscience: Sensory Neuroscience</i>
2018–	Editorial Board	<i>Nature Scientific Data</i>
2018–	Handling Editor	<i>NeuroImage</i>
2014–2018	Editorial Board	<i>NeuroImage</i>
2013–	Academic Editor	<i>PLoS ONE</i>
2012–	Associate Editor	<i>Frontiers in Human Neuroscience: Cognitive Neuroscience</i>

Ad hoc reviewer

Annals of the New York Academy of Sciences, Biological Psychiatry, BioSocieties, Brain Connectivity, Brain Structure & Function, Journal of Cerebral Blood Flow and Metabolism, Cell Reports, Cerebral Cortex, Journal of Comparative Neurology, Cortex, Current Biology, eLife, Frontiers in Systems Neuroscience, Frontiers in Human Neuroscience, Journal of Neuroscience, Journal of Neurophysiology, Human Brain Mapping, Nature Communications, Nature Communications Biology, Nature Human Behaviour, Nature Methods, Nature Neuroscience, Nature Reviews Neuroscience, NeuroImage, Neuroinformatics, Neuron, Neuropsychologia, Neuropsychopharmacology, Neuroscience & Biobehavioral Reviews, PLoS Computational Biology, PLoS ONE, PLoS Biology, Philosophical Transactions of the Royal Society B, Psychiatry Research, Proceedings of the National Academy of Sciences, Journal of Psychiatry and Neuroscience, Journal of Selected Topics in Signal Processing (IEEE), Trends in Cognitive Sciences, Trends in Neurosciences

Reviewer for Funding Agencies

Austrian Science Fund, Alexander von Humboldt-Stiftung, Biotechnology & Biological Sciences Research Council (UK), European Research Council (ERC), Israel Science Foundation, Le Fonds de la Recherche Scientifique – FNRS, Medical Research Council (UK), Netherlands Organisation for Scientific Research, Wellcome Trust

External Reviewer of Habilitations

2019 Demian Wassermann Sorbonne Université

External Reviewer of Doctoral Dissertations

2020	Noam Saadon-Grosman	Hebrew University, Jerusalem
2020	Céline Delettre	University of Paris
2020	Katrine Rojkova	Sorbonne University
2020	Jessica Dafflon	King's College, London
2020	Majd Abdallah	University of Bordeaux
2019	Ignacio Rebollo	Sorbonne University
2018	Kong Ru	National University of Singapore
2018	Phillip Dickinson	McGill University
2017	Alistair Perry	University of New South Wales
2017	Sofie Valk	Humboldt University
2015	Zoe Samara	Maastricht University
2013	Jan Buecke	Humboldt University
2012	R. Matt Hutchison	University of Western Ontario
2011	Maria de la Iglesia Vayá	Universidad Politécnica de Valencia

Elected Representative

2019–2022	Program Chair, OHBM Council	Organization for Human Brain Mapping (OHBM)
2016–2017	Treasurer	Open Science Special Interest Group, OHBM
2013–2014	Research Group Leaders	Humanities & Social Sciences Section, Max Planck Society

Memberships

Organizations

2016–	Open Science Special Interest Group, OHBM
2010–	The Neuro Bureau
2009–	Organization for Human Brain Mapping (OHBM)
2009–	Society for Neuroscience

Advisory Boards

2017– Primate Data Exchange (PRIME-DE)
2010– Neuro Bureau Executive Board
2009– International Neuroimaging Data-Sharing Initiative (INDI)

Teaching Experience

2020	Course lecturer on neuroanatomy	Introduction to Cognitive Neuroscience, ENS, Paris
2020	Education course lecturer	Cognitive Neuroscience course, Universidad Catholica, Santiago, Chile
2019	Education course lecturer	Cajal School on Whole-Brain Imaging, Bordeaux
2018&2019	Education course lecturer	Brain Parcellations & Functional Territories, OHBM
2015	Course Organizer	Advanced Lecture on Connectivity, Max Planck Research School
2013–2017	Lecturer	NeuroCom Summer School, International Max Planck Research School
2013	Education course lecturer	International Society for Magnetic Resonance in Medicine
2010–2011	Lecturer	Medical Neuroscience, Charité Hospital, Berlin

Presentations

Conferences and workshops

2020	Invited symposium (Co-chair)	Japan Neuroscience Society, Kobe
2020	Symposium (Chair)	Cognitive Neuroscience Society, Boston
2019	Keynote	Neuroinformatics 2019 (INCF Congress), Warsaw
2019	Plenary & Symposium	Polish Neuroscience Society, Katowice
2019	Workshop	Emergent Phenomena in Macroscopic Neural Networks, CNS, Barcelona
2019	Workshop	Network Science: Foundations & Applications, EPFL, Lausanne
2018	Keynote	Organization for Human Brain Mapping
2018	Workshop	Whistler Workshop on Brain Function, Connectivity & Behavior
2017	Symposium Chair	Organization for Human Brain Mapping
2017	Workshop	Tuebingen Systems Neuroscience Symposium
2017	Workshop	Cortical Feedback in the central nervous system, University of Jena
2016	Keynote	Aspects of Neuroscience Conference, University of Warsaw
2016	Keynote	Iranian Brain Mapping Conference
2015	Nanosymposium	Society for Neuroscience
2014	Workshop	Biennial Conference on Resting State and Brain Connectivity
2014	Conference symposium	International Congress on Clinical Neurophysiology
2013	Workshop	The Generational Brain, Center for Literary and Cultural Studies
2013	Conference symposium	Deutsche Gesellschaft für Psychiatrie, Psychotherapie und Nervenheilkunde
2013	Conference symposium	Deutsche Gesellschaft für Neurologie
2013	Conference symposium	Biennial Conference for the Society for Philosophy of Science in Practice
2012	Workshop	Biennial Conference on Resting State and Brain Connectivity
2012	Workshop	Experimental Entanglements in Cognitive Neuroscience
2012	Conference symposium	International Symposium for Contemplative Sciences
2012	Workshop	International Workshop on in-vivo Brodmann Mapping of the Human Brain
2011	Workshop	Neuro-Reality Check, Max Planck Institute for the History of Science
2011	Conference symposium	Deutsche Gesellschaft für Psychiatrie, Psychotherapie und Nervenheilkunde
2011	Conf symposium (Co-chair)	Deutsche Gesellschaft für Neurologie
2011	Invited talk	Convention of the German Academy of Neurosurgery
2009	Nanosymposium	Society for Neuroscience
2008	Invited talk	Biennial Conference on Resting State and Brain Connectivity
2008	Conference symposium	Neuropsychanalysis Congress
2008	Conference symposium	European Conference of the Society for Literature, Science, and the Arts

Invited talks

Aarhus University, Bernstein Center for Computational Neuroscience (Berlin), Cambridge University, Interdisciplinary Research Center (CRI), Champalimaud Foundation, Child Mind Institute (New York), Chinese Academy of Sciences, Donders Institute, Freie University (Berlin), Fudan University (Shanghai), University of Grenoble, Hebrew University, Hopital Pitié-Salpêtrière, Humboldt University (Berlin), Imperial College London, Institute for Cognitive Neuroscience (UCL), Instituto de Neurología Cognitiva (INECO), Johns Hopkins University, Jülich Research Center, Kyoto University, Max Delbrück Center (Berlin), Montreal Neurological Institute, Nathan Kline Institute, National University of Singapore, NeuroSpin, Osaka University (CiNet), Oxford University, Universidad de la República (Uruguay), University of Cardiff, University of Dresden, University of Durham, University of Düsseldorf, Hangzhou Normal University, University of Illinois, University of Jena, University of Lausanne, University of Leipzig, University of Magdeburg, University of Marseille,

University of Miami, University of Montreal (CRIUGM), University of Newcastle, University of Rochester, University of Texas at Austin, University of Western Ontario, University of York, Vrije Universiteit Amsterdam, Weizmann Institute, Wellcome Centre for Human Neuroimage (UCL), Zentrum für Kunst und Medientechnologie (Karlsruhe)

Conference Organizing

2021	Program Chair	Organization for Human Brain Mapping (OHBM)
2020	Organizing Committee	Gradients of Brain Organization Workshop , Montreal
2020	Program Committee	Organization for Human Brain Mapping (OHBM)
2020	Organizing Committee	Whistler Workshop on Brain Functional Organization, Connectivity & Behavior
2019	Organizing Committee	Brainhack Global
2019	Chair	PRIME-DE Brainhack, London
2019	Co-chair	Primate Data Exchange (PRIME-DE) Global Collaboration Workshop , London
2019	Chair	Summer Whistler Workshop on Brain Functional Organization, Connectivity & Behavior
2019	Co-chair	Gradients Workshop, Collège de France
2017	Chair	Workshop on trends in large-scale cortical organization , MPI Leipzig
2014	Co-chair	Max Planck Group Leaders Annual Meeting
2014	Chair	OHBM Hackathon
2014	Local committee	Annual Meeting of the Organization for Human Brain Mapping (OHBM)
2012–	Chair	Over ten international Brainhack events
2009–	Co-chair	Neuroesthetics Symposium (2009, 2011, 2013)
2009	Co-chair	Habits in Habitat I: Emotions and Motion
2008	Co-organizer	Workshop on Connectivity in the Resting Brain

Publications

h-index: 60 ([Google Scholar](#))
 Citations: >19k ([Google Scholar](#))

Journal Articles

† indicates senior or corresponding author

* indicates first or co-first author

- Friedrich P, Forkel SJ, Amiez C, Balsters JH, Coulon O, Fan L, Goulas A, Hadj-Bouziane F, Hecht EE, Heuer K, Jiang T, Latzman RD, Liu X, Loh KK, Patil KR, Lopez-Persem A, Procyk E, Sallet J, Toro R, Vickery S, Weis S, Wilson C, Xu T, Zerbi V, Eickoff SB, **Margulies DS**, Mars RB, Thiebaut de Schotten M (2020)
[Imaging evolution of the primate brain: the next frontier?](#)
NeuroImage 22:117685
- Karapanagiotidis T, Vidaurre D, Quinn AJ, Vatansever D, Poerio GL, Turnbull A, Ho NSP, Leech R, Bernhardt BC, Jefferies E, **Margulies DS**, Nichols TE, Woolrich MW, Smallwood J (2020)
[The psychological correlates of distinct neural states occurring during wakeful rest](#)
Sci Rep 10(1):21121
- Messinger A, Sirmipilatz N, Heuer K, Loh KK, Mars RB, Sein J, Xu T, Glen D, Jung B, Seidlitz J, Taylor P, Toro R, Garza-Villarreal EA, Sponheim C, Wang X, Benn RA, Cagna B, Dadarwal R, Evrard HC, Garcia-Saldivar P, Giavasis S, Hartig R, Lepage C, Liu C, Majka P, Merchant H, Milham MP, Rosa MGP, Tasserie J, Uhrig L, **Margulies DS**, Klink PC (2020)
[A collaborative resource platform for non-human primate neuroimaging](#)
NeuroImage 20:117519
- Schurz M, Radua J, Tholen MG, Maliske L, **Margulies DS**, Mars RB, Sallet J, Kanske P (*In Press*)
[Toward a hierarchical model of social cognition: A neuroimaging meta-analysis and integrative review of empathy and theory of mind](#)
Psychol Bull
- Ho NSP, Baker D, Karapanagiotidis T, Seli P, Wang HT, Leech R, Bernhardt B, **Margulies DS**, Jefferies E, Smallwood J (2020)
[Missing the forest because of the trees: slower alternations during binocular rivalry are associated with lower levels of visual detail during ongoing thought](#)
Neurosci Conscious
- Park BY, de Wael RV, Paquola C, Larivière S, Benkarim O, Royer J, Tavakol S, Cruces RR, Li Q, Valk SL, **Margulies DS**, Mišić B, Bzdok D, Smallwood J, Bernhardt BC (2020)

Signal diffusion along connectome gradients and inter-hub routing differentially contribute to dynamic human brain function

NeuroImage

- † 7. Mandonnet E, Vincent M, Valero-Cabré A, Facque V, Barberis M, Bonnetblanc F, Rheault F, Volle E, Descoteaux M, **Margulies DS** (2020)
Network-level causal analysis of set-shifting during trail making test part B: A multimodal analysis of a glioma surgery case
Cortex 132:238–249
8. Tian Y, **Margulies DS**, Breakspear M, Zalesky A (2020)
Topographic organization of the human subcortex unveiled with functional connectivity gradients
Nature Neuroscience
9. Valk SL, Xu T, **Margulies DS**, Masouleh SK, Paquola C, Goulas A, Kochunov P, Smallwood J, Yeo BTT, Bernhardt BC, Eickhoff SB (2020)
Shaping brain structure: Genetic and phylogenetic axes of macroscale organization of cortical thickness
Science Advances 6(39):eabb3417
10. Xu T, Nenning KH, Schwartz E, Hong SJ, Vogelstein JT, Goulas A, Fair DA, Schroeder CE, **Margulies DS**, Smallwood J, Milham MP, Langs G (2020)
Cross-species functional alignment reveals evolutionary hierarchy within the connectome
NeuroImage 223:117346
11. Vatansever D, Karapanagiotidis T, **Margulies DS**, Jefferies E, Smallwood J (2020)
Distinct patterns of thought mediate the link between brain functional connectomes and well-being
Network Neuroscience 4(3):637–657
12. Hong SJ, Xu T, Nikolaidis A, Smallwood J, **Margulies DS**, Bernhardt B, Vogelstein J, Milham MP (2020)
Toward a connectivity gradient-based framework for reproducible biomarker discovery
NeuroImage 223:117322
13. Nenning KH, Xu T, Schwartz E, Arroyo J, Woehrer A, Franco AR, Vogelstein JT, **Margulies DS**, Liu H, Smallwood J, Milham MP, Langs G (2020)
Joint embedding: A scalable alignment to compare individuals in a connectivity space
NeuroImage 222:117232
14. Wang HT, Ho NSP, Bzdok D, Bernhardt BC, **Margulies DS**, Jefferies E, Smallwood J (2020)
Neurocognitive patterns dissociating semantic processing from executive control are linked to more detailed off-task mental time travel
Scientific Reports 10(1):11904
15. Turnbull A, Karapanagiotidis T, Wang HT, Bernhardt BC, Leech R, **Margulies DS**, Schooler J, Jefferies E, Smallwood J (2020)
Reductions in task positive neural systems occur with the passage of time and are associated with changes in ongoing thought
Scientific Reports 10(1):9912
16. Fox KCR, Shi L, Baek S, Raccach O, Foster BL, Saha S, **Margulies DS**, Kucyi A, Parvizi J (2020)
Intrinsic network architecture predicts the effects elicited by intracranial electrical stimulation of the human brain
Nature Human Behaviour 4:1039–1052
17. Wang X, **Margulies DS**, Smallwood J, Jefferies E (2020)
A gradient from long-term memory to novel cognition: graded transitions through default mode and executive cortex
NeuroImage 220:117074
18. Lanzoni L, Ravasio D, Thompson H, Vatansever D, **Margulies DS**, Smallwood J, Jefferies E (*In Press*)
The role of default mode network in semantic cue integration
NeuroImage
19. Mckeown B, Strawson WH, Wang HT, Karapanagiotidis T, Vos de Wael R, Benkarim O, Turnbull A, **Margulies DS**, Jefferies E, McCall C, Bernhardt B, Smallwood J (*In Press*)
The relationship between individual variation in macroscale functional gradients and distinct aspects of ongoing thought
NeuroImage

20. Vos de Wael R, Benkarim O, Paquola C, Lariviere S, Royer J, Tavakol S, Xu T, Hong SJ, Langs G, Valk S, Misic B, Milham M, **Margulies DS**, Smallwood J, Bernhardt BC (*In Press*)
BrainSpace: a toolbox for the analysis of macroscale gradients in neuroimaging and connectomics datasets
Communications Biology 3(1):103
21. Paquola C, Bethlehem RAI, Seidlitz J, Wagstyl K, Romero-Garcia R, Whitaker KJ, Vos De Wael R, Williams GB, NSPN Consortium, Vertes PE, **Margulies DS**, Bernhardt BC, Bullmore ET (*In Press*)
Shifts in myeloarchitecture characterise adolescent development of cortical gradients
eLife
22. Mandonnet E, **Margulies DS**, Stengel C, Dali M, Rheault F, Toba MN, Bonnetblanc F, Valero-Cabre A (*In Press*)
"I do not feel my hand where I see it": causal mapping of visuo-proprioceptive integration network in a surgical glioma patient
Acta Neurochir (Wien)
23. Zhang M, Savill N, **Margulies DS**, Smallwood J, Jefferies E (2019)
Distinct individual differences in default mode network connectivity relate to off-task thought and text memory during reading
Scientific Reports 9(1):16220
24. Morys F, Janssen L, Cesnaite E, Beyer F, Garcia-Garcia I, Kube J, Kumral D, Liem F, Mehl N, Mahjoory K, Schrimpf A, Gaebler M, **Margulies DS**, Villringer A, Neumann J, Nikulin V, Horstmann A (*In Press*)
Hemispheric asymmetries in resting-state EEG and fMRI are related to approach and avoidance behaviour, but not to eating behaviour or BMI
Human Brain Mapping
25. Murphy C, Poerio G, Sormaz M, Wang HT, Vatansever D, Allen M, **Margulies DS**, Jefferies E, Smallwood J (*In Press*)
Hello, is that me you are looking for? A re-examination of the role of the DMN in social and self relevant aspects of off-task thought
PLoS One 14(11):e0216182
26. Turnbull A, Wang HT, Murphy C, Ho N, Wang X, Sormaz M, Karapanagiotidis T, Leech R, Bernhardt BC, **Margulies DM**, Vatansever D, Jefferies E, Smallwood J (2019)
Left dorsolateral prefrontal cortex supports context-dependent prioritisation of off-task thought
Nature Communications 10(1):3816
- † 27. Bayrak S, Khalil AA, Villringer K, Fiebach JB, Villringer A, **Margulies DS**, Ovadia-Caro S (2019)
The impact of ischemic stroke on connectivity gradients
NeuroImage: Clinical 24:101947
28. Alves PN, Foulon C, Karolis V, Bzdok D, **Margulies DS**, Volle E, Thiebaut de Schotten M (*In Press*)
An improved neuroanatomical model of the default-mode network reconciles previous neuroimaging and neuropathological findings
Communications Biology
29. Ping Ho NS, Wang X, Vatansever D, **Margulies DS**, Bernhardt BC, Jefferies E, Smallwood J (2019)
Individual variation in patterns of task focused and detailed thought are uniquely associated within the architecture of the medial temporal lobe
NeuroImage 202:116045
30. Paquola C, Vos De Wael R, Wagstyl K, Bethlehem RAI, Hong S-J, Seidlitz J, Bullmore ET, Evans AC, Misic B, **Margulies DS**, Smallwood J, Bernhardt BC (2019)
Microstructural and functional gradients are increasingly dissociated in transmodal cortices
PLOS Biology 17(5):1–28
31. van den Heuvel MP, Scholtens LH, van der Burgh HK, Agosta F, Alloza C, Arango C, Auyeung B, Baron-Cohen S, Basaia S, Benders MJNL, Beyer F, Booij L, Braun KPJ, Filho GB, Cahn W, Cannon DM, Chaim-Avancini TM, Chan SSM, Chen EYH, Crespo-Facorro B, Crone EA, Dannlowski U, de Zwarte SMC, Dietsche B, Donohoe G, Plessis SD, Durston S, Díaz-Caneja CM, Díaz-Zuluaga AM, Emsley R, Filippi M, Frodl T, Gorges M, Graff B, Grotegerd D, Gasecki D, Hall JM, Holleran L, Holt R, Hopman HJ, Jansen A, Janssen J, Jodzio K, Jäncke L, Kaleda VG, Kassubek J, Masouleh SK, Kircher T, Koevoets MGJC, Kostic VS, Krug A, Lawrie SM, Lebedeva IS, Lee EHM, Lett TA, Lewis SJG, Liem F, Lombardo MV, Lopez-Jaramillo C, **Margulies DS**, Markett S, Marques P, Martínez-Zalacain I, McDonald C, McIntosh AM, McPhilemy G, Meinert SL, Menchón JM, Montag C, Moreira PS, Morgado P, Mothersill DO, Mérillat S, Müller H-P, Nabulsi L, Najt P, Narkiewicz K, Naumczyk P, Oranje B, Ortiz-Garcia de la Foz V, Peper JS, Pineda JA, Rasser PE, Redlich R, Repple J, Reuter M, Rosa PGP, Ruigrok ANV,

Sabisz A, Schall U, Seedat S, Serpa MH, Skouras S, Soriano-Mas C, Sousa N, Szurowska E, Tomyshev AS, Tordesillas-Gutierrez D, Valk SL, van den Berg LH, van Erp TGM, van Haren NEM, van Leeuwen JMC, Villringer A, Vinkers CH, Vollmar C, Waller L, Walter H, Whalley HC, Witkowska M, Witte AV, Zanetti MV, Zhang R, de Lange SC (2019)

10Kin1day: A Bottom-Up Neuroimaging Initiative

Frontiers in Neurology 10:425

32. Lifshitz M, Sacchet MD, Huntenburg JM, Thiery T, Fan Y, Gärtner M, Grimm S, Winnebeck E, Fissler M, Schroeter TA, Margulies DS, Barnhofer T (2019)

Mindfulness-Based Therapy Regulates Brain Connectivity in Major Depression

Psychotherapy and Psychosomatics 1–3

33. Goulas A, **Margulies DS**, Bezgin G, Hilgetag CC (2019)

The architecture of mammalian cortical connectomes in light of the theory of the dual origin of the cerebral cortex

Cortex 118:244–261

34. Xu T, Sturgeon D, Ramirez JSB, Froudust-Walsh S, **Margulies DS**, Schroeder CE, Fair DA, Milham MP (2019)

Inter-individual Variability of Functional Connectivity in Awake and Anesthetized Rhesus Monkeys

Biological Psychiatry: Cognitive Neuroscience and Neuroimaging 4(9):543–553

- † 35. Buckner RL, **Margulies DS** (2019)

Macroscale Cortical Organization and a Default-Like Transmodal Apex Network in the Marmoset Monkey

Nature Communications 10(1):1976

36. Hong SJ, Vos de Wael R, Bethlehem RAI, Lariviere S, Paquola C, Valk SL, Milham MP, Di Martino A, **Margulies DS**, Smallwood J, Bernhardt BC (2019)

Atypical functional connectome hierarchy in autism

Nature Communications 10(1):1022

- † 37. Oligschläger S, Xu T, Baczkowski BM, Falkiewicz M, Falchier A, Linn G, **Margulies DS** (2019)

Gradients of connectivity distance in the cerebral cortex of the macaque monkey

Brain Struct Funct 224(2):925–935

38. Murphy C, Wang HT, Konu D, Lowndes R, **Margulies DS**, Jefferies E, Smallwood J (2019)

Modes of operation: A topographic neural gradient supporting stimulus dependent and independent cognition

NeuroImage 186:487–496

- † 39. Mendes N, Oligschläger S, Lauckner ME, Golchert J, Huntenburg JM, Falkiewicz M, Ellamil M, Krause S, Baczkowski BM, Cozatl R, Osoianu A, Kumral D, Pool J, Golz L, Dreyer M, Haueis P, Jost R, Kramarenko Y, Engen H, Ohrnberger K, Gorgolewski KJ, Farrugia N, Babayan A, Reiter A, Schaare HL, Reinelt J, Roebbig J, Uhlig M, Erbey M, Gaebler M, Smallwood J, Villringer A, **Margulies DS** (2019)

A functional connectome phenotyping dataset including cognitive state and personality measures

Sci Data 6:180307

40. Babayan A, Erbey M, Kumral D, Reinelt J, Reiter A, Röbbig J, Lina H, Uhlig M, Anwender A, Bazin P, Horstmann A, Lampe L, Nikulin V, Okon-Singer H, Preusser S, Pampel A, Rohr C, Sacher J, Thöne-Otto A, Trapp S, Nierhaus T, Altmann D, Arelin K, Blöchl M, Bongartz E, Breig P, Cesnaite E, Chen S, Cozatl R, Czerwonski S, Dambrauskaite G, Dreyer M, Enders J, Engelhardt M, Fischer M, Forschack N, Golchert J, Golz L, Alexandrina C, Hedrich S, Hentschel N, Hoffmann D, Huntenburg J, Jost R, Kanaan A, Kosatschek A, Kunzendorf S, Lammers H, Lauckner M, Mahjoory K, Mendes N, Menger R, Morino E, Nätke K, Neubauer J, Noyan H, Oligschläger S, Panczyszyn-Trzewik P, Poehlchen D, Putzke N, Roski S, Schaller M, Schieferbein A, Schlaak B, Schmidt R, Schmidt H, Schimpf A, Stasch S, Voss M, Wiedemann A, Gorgolewski K, **Margulies DS**, Gaebler M, Villringer A (2019)

A mind-brain-body dataset of MRI, EEG, cognition, emotion, and peripheral physiology in young and old adults

Sci Data 6:180308

41. Tang R, Ketcha M, Badea A, Calabrese ED, **Margulies DS**, Vogelstein JT, Priebe CE, Sussman DL (2019)

Connectome Smoothing via Low-rank Approximations

IEEE Transactions on Medical Imaging 38(6):1446–1456

42. Kernbach JM, Yeo BTT, Smallwood J, **Margulies DS**, Thiebaut de Schotten M, Walter H, Sabuncu M, Holmes AJ, Gramfort A, Varoquaux GP, Thirion B, Bzdok D (2018)

Subspecialization within default mode nodes characterized in 10,000 UK Biobank participants

Proc Natl Acad Sci U S A 115(48):12295–12300

43. Schaare HL, Kharabian-Masouleh S, Beyer F, Kumral D, Uhlig M, Reinelt J, Reiter AMF, Lampe L, Babayan A, Erbey M, Roebbig J, Schroeter ML, Okon-Singer H, Mueller K, Mendes N, **Margulies DS**, Witte V, Gaebler M, Villringer A (2019) **Association of Peripheral Blood Pressure with Grey Matter Volume in 19- to 40-Year-Old Adults**
Neurology 92(8):758–773
44. Turnbull A, Wang HT, Schooler JW, Jefferies E, **Margulies DS**, Smallwood J (2018) **The ebb and flow of attention: Between-subject variation in intrinsic connectivity and cognition associated with the dynamics of ongoing experience**
NeuroImage 185:286–299
45. Vos de Wael R, Larivière S, Caldaïrou B, Hong SJ, **Margulies DS**, Jefferies E, Bernasconi A, Smallwood J, Bernasconi N, Bernhardt BC (2018) **Anatomical and microstructural determinants of hippocampal subfield functional connectome embedding**
Proc Natl Acad Sci U S A 115(40):10154–10159
46. Milham MP, Ai L, Koo B, Xu T, Balezeau F, Baxter MG, Croxson PL, Damatac CG, Harel N, Freiwald W, Griffiths TD, Everling S, Jung B, Kastner S, Leopold DA, Mars RB, Menon RS, Messinger A, Morrison JH, Nacef J, Nagy J, Rios MO, Petkov CI, Pinsk M, Poirier C, Rajimehr R, Rushworth MFS, Russ BE, Schmid M, Schwiedrzik CM, Sallet J, Seidlitz J, Ungerleider L, Thiele A, Tsao D, Yacoub E, Ye F, Zarco W, **Margulies DS**, Schroeder CE (2018) **An open resource for nonhuman primate imaging**
Neuron 100(1):61–74
47. Sormaz M, Murphy C, Wang HT, Hymers M, Karapanagiotidis T, Poerio G, **Margulies DS**, Jefferies E, Smallwood J (2018) **Default mode network can support the level of detail in experience during active task states**
Proc Natl Acad Sci U S A 115(37):9318–9323
48. Wang HT, Bzdok D, **Margulies DS**, Craddock RC, Milham MP, Jefferies E, Smallwood J (2018) **Patterns of thought: population variation in the associations between large-scale network organisation and self-reported experiences at rest**
NeuroImage 176:518–527
49. Kipping JA, **Margulies DS**, Eickhoff SB, Lee A, Qiu A (2018) **Trade-off of cerebello-cortical and cortico-cortical functional networks for planning in 6-year-old children**
NeuroImage 176:510–517
50. Kernbach J, Satterthwaite T, Bassett D, Smallwood J, **Margulies DS**, Krall S, Shaw P, Varoquaux G, Thirion B, Konrad K, Bzdok D (2018) **Shared Endo-phenotypes of Default Mode Dysfunction in Attention Deficit/Hyperactivity Disorder and Autism Spectrum Disorder**
Translational Psychiatry 8(1):133
51. Hartwigsen G, Neef NE, Camilleri JA, **Margulies DS**, Eickhoff SB (2019) **Functional Segregation of the Right Inferior Frontal Gyrus: Evidence From Coactivation-Based Parcellation**
Cereb Cortex 29(4):1532–1546
- † 52. Huntenburg JM, Bazin P-L, **Margulies DS** (2018) **Large-Scale Gradients in Human Cortical Organization**
Trends Cogn Sci 22(1):21–31
53. Villena-Gonzalez M, Wang H-T, Sormaz M, Mollo G, **Margulies DS**, Jefferies EA, Smallwood J (2018) **Individual variation in the propensity for prospective thought is associated with functional integration between visual and retrosplenial cortex**
Cortex 99:224–234
54. Murphy C, Jefferies E, Rueschemeyer S-A, Sormaz M, Wang H-T, **Margulies DS**, Smallwood J (2018) **Distant from input: Evidence of regions within the default mode network supporting perceptually-decoupled and conceptually-guided cognition**
NeuroImage 171:393–401
55. Lefort-Besnard J, Bassett DS, Smallwood J, **Margulies DS**, Derntl B, Gruber O, Aleman A, Jardri R, Varoquaux G, Thirion B, Eickhoff SB, Bzdok D (2018) **Different shades of default mode disturbance in schizophrenia: Subnodal covariance estimation in structure and function**
Hum Brain Mapp 39(2):644–661

- * 56. **Margulies DS**, Smallwood J (2017)
Converging evidence for the role of transmodal cortex in cognition
Proc Natl Acad Sci U S A 114(48):12641–12643 (*Invited Commentary*)
- † 57. Oligschläger S, Huntenburg JM, Golchert J, Lauckner ME, Bonnen T, **Margulies DS** (2017)
Gradients of connectivity distance are anchored in primary cortex
Brain Struct Funct 222(5):2173–2182 (*Editors' Choice Award for best paper published in 2017*)
- † 58. Kuehn E, Dinse J, Jakobsen E, Long X, Schäfer A, Bazin P-L, Villringer A, Sereno MI, **Margulies DS** (2017)
Body Topography Parcellates Human Sensory and Motor Cortex
Cereb Cortex 27(7):3790–3805
- * 59. **Margulies DS** (2017)
Unraveling the Complex Tapestry of Association Networks
Neuron 95(2):239–241 (*Invited Commentary*)
- † 60. Liem F, Varoquaux G, Kynast J, Beyer F, Masouleh S, Huntenburg JM, Lampe L, Rahim M, Abraham A, Craddock RC, Riedel-Heller S, Luck T, Loeffler M, Schroeter ML, Witte AV, Villringer A, **Margulies DS** (2017)
Predicting brain-age from multimodal imaging data captures cognitive impairment
NeuroImage 148:179–188 (*Honorable Mention for NeuroImage Best Paper Award 2017*)
- † 61. Goulas A, Stiers P, Hutchison RM, Everling S, Petrides M, **Margulies DS** (2017)
Intrinsic functional architecture of the macaque dorsal and ventral lateral frontal cortex
J Neurophysiol 117(3):1084–1099
- † 62. Golchert J, Smallwood J, Jefferies E, Seli P, Huntenburg JM, Liem F, Lauckner ME, Oligschläger S, Bernhardt BC, Villringer A, **Margulies DS** (2017)
Individual variation in intentionality in the mind-wandering state is reflected in the integration of the default-mode, fronto-parietal, and limbic networks
NeuroImage 146:226–235
- † 63. Golchert J, Smallwood J, Jefferies E, Liem F, Huntenburg JM, Falkiewicz M, Lauckner ME, Oligschläger S, Villringer A, **Margulies DS** (2017)
In need of constraint: Understanding the role of the cingulate cortex in the impulsive mind
NeuroImage 146:804–813
- † 64. Huntenburg JM, Bazin P-L, Goulas A, Tardif CL, Villringer A, **Margulies DS** (2017)
A Systematic Relationship Between Functional Connectivity and Intracortical Myelin in the Human Cerebral Cortex
Cereb Cortex 27(2):981–997
- 65. Klados MA, Pandria N, Micheloyannis S, **Margulies D**, Bamidis PD (2017)
Math anxiety: Brain cortical network changes in anticipation of doing mathematics
Int J Psychophysiol 122:24–31
- 66. Ho TC, Sacchet MD, Connolly CG, **Margulies DS**, Tymofiyeva O, Paulus MP, Simmons AN, Gotlib IH, Yang TT (2017)
Inflexible Functional Connectivity of the Dorsal Anterior Cingulate Cortex in Adolescent Major Depressive Disorder
Neuropsychopharmacology 42(12):2434–2445
- 67. Poerio GL, Sormaz M, Wang H-T, **Margulies D**, Jefferies E, Smallwood J (2017)
The role of the default mode network in component processes underlying the wandering mind
Soc Cogn Affect Neurosci 12(7):1047–1062
- 68. Caso I, Karapanagiotidis T, Aggias-Vella E, Konishi M, **Margulies DS**, Jefferies E, Smallwood J (2017)
Knowing me, knowing you: Resting-state functional connectivity of ventromedial prefrontal cortex dissociates memory related to self from a familiar other
Brain Cogn 113:65–75
- 69. Masouleh S, Herzig S, Klose L, Roggenhofer E, Tenckhoff H, Kaiser T, Thöne-Otto A, Wiese M, Berg T, Schroeter ML, **Margulies DS**, Villringer A (2017)
Functional connectivity alterations in patients with chronic hepatitis C virus infection: A multimodal MRI study
J Viral Hepat 24(3):216–225
- 70. Bellec P, Chu C, Chouinard-Decorte F, Benhajali Y, **Margulies DS**, Craddock RC (2017)
The Neuro Bureau ADHD-200 Preprocessed repository
NeuroImage 144(Pt B):275–286

71. Sarzyńska J, Falkiewicz M, Riegel M, Babula J, **Margulies DS**, Nęcka E, Grabowska A, Szatkowska I (2017)
More intelligent extraverts are more likely to deceive
PLoS One 12(4):e0176591
- * 72. **Margulies DS**, Ghosh SS, Goulas A, Falkiewicz M, Huntenburg JM, Langs G, Bezgin G, Eickhoff SB, Castellanos FX, Petrides M, Jefferies E, Smallwood J (2016)
Situating the default-mode network along a principal gradient of macroscale cortical organization
Proc Natl Acad Sci U S A 113(44):12574–12579 (Cover Article)
- † 73. Jakobsen E, Liem F, Klados MA, Bayrak S, Petrides M, **Margulies DS** (2016)
Automated individual-level parcellation of Broca's region based on functional connectivity
NeuroImage 170:41–53
- † 74. Jakobsen E, Böttger J, Bellec P, Geyer S, Rübsem R, Petrides M, **Margulies DS** (2016)
Subdivision of Broca's region based on individual-level functional connectivity
Eur J Neurosci 43(4):561–71
- † 75. Steinbeis N, **Margulies DS** (2016)
Opportunities and challenges for current developmental neuroscience
Theory & Psychology 26(5):620–631
- † 76. Ellamil M, Berson J, Wong J, Buckley L, **Margulies DS** (2016)
One in the Dance: Musical Correlates of Group Synchrony in a Real-World Club Environment
PLoS One 11(10):e0164783
- † 77. Ellamil M, Berson J, **Margulies DS** (2016)
Influences on and Measures of Unintentional Group Synchrony
Front Psychol 7:1744
78. Alderson-Day B, Diederken K, Fernyhough C, Ford JM, Horga G, **Margulies DS**, McCarthy-Jones S, Northoff G, Shine JM, Turner J, Ven V, Lutterveld R, Waters F, Jardri R (2016)
Auditory Hallucinations and the Brain's Resting-State Networks: Findings and Methodological Observations
Schizophr Bull 42(5):1110–23
79. Tzouma A, **Margulies DS**, Triarhou LC (2016)
Commentary on "The Cerebellar System and What it Signifies from a Biological Perspective: A Communication by Christofredo Jakob (1866-1956) Before the Society of Neurology and Psychiatry of Buenos Aires, December 1938"
Cerebellum 15(4):417–24
80. Hove MJ, Stelzer J, Nierhaus T, Thiel SD, Gundlach C, **Margulies DS**, Dijk KR A, Turner R, Keller PE, Merker B (2016)
Brain Network Reconfiguration and Perceptual Decoupling During an Absorptive State of Consciousness
Cereb Cortex 26(7):3116–24
81. Medea B, Karapanagiotidis T, Konishi M, Ottaviani C, **Margulies D**, Bernasconi A, Bernasconi N, Bernhardt BC, Jefferies E, Smallwood J (2018)
How do we decide what to do? Resting-state connectivity patterns and components of self-generated thought linked to the development of more concrete personal goals
Exp Brain Res 236(9): 2469–2481
82. Rohr CS, Villringer A, Solms-Baruth C, Meer E, **Margulies DS**, Okon-Singer H (2016)
The neural networks of subjectively evaluated emotional conflicts
Hum Brain Mapp 37(6):2234–46
83. Xiao Y, Friederici AD, **Margulies DS**, Brauer J (2016)
Development of a selective left-hemispheric fronto-temporal network for processing syntactic complexity in language comprehension
Neuropsychologia 83:274–282
84. Xiao Y, Friederici AD, **Margulies DS**, Brauer J (2016)
Longitudinal changes in resting-state fMRI from age 5 to age 6 years covary with language development
NeuroImage 128:116–124
85. Meshi D, Mamerow L, Kirilina E, Morawetz C, **Margulies DS**, Heekeren HR (2016)
Sharing self-related information is associated with intrinsic functional connectivity of cortical midline brain regions
Sci Rep 6:22491

86. Xiao Y, Brauer J, Lauckner M, Zhai H, Jia F, **Margulies DS**, Friederici AD (2016)
Development of the Intrinsic Language Network in Preschool Children from Ages 3 to 5 Years
PLoS One 11(11):e0165802
87. Smallwood J, Karapanagiotidis T, Ruby F, Medea B, Caso I, Konishi M, Wang H-T, Hallam G, **Margulies DS**, Jefferies E (2016)
Representing Representation: Integration between the Temporal Lobe and the Posterior Cingulate Influences the Content and Form of Spontaneous Thought
PLoS One 11(4):e0152272
88. Cohen N, **Margulies DS**, Ashkenazi S, Schaefer A, Taubert M, Henik A, Villringer A, Okon-Singer H (2016)
Using executive control training to suppress amygdala reactivity to aversive information
NeuroImage 125:1022–1031
- † 89. Barnhofer T, Huntenburg JM, Lifshitz M, Wild J, Antonova E, **Margulies DS** (2016)
How Mindfulness Training May Help to Reduce Vulnerability for Recurrent Depression: A Neuroscientific Perspective
Clinical Psychological Science 4(2):328–343
90. Craddock RC, **Margulies DS**, Bellec P, Nichols BN, Alcauter S, Barrios FA, Burnod Y, Cannistraci CJ, Cohen-Adad J, De Leener B, Dery S, Downar J, Dunlop K, Franco AR, Seligman Froehlich C, Gerber AJ, Ghosh SS, Grabowski TJ, Hill S, Sólón Heinsfeld A, Hutchison RM, Kundu P, Laird AR, Liew S-L, Lurie DJ, McLaren DG, Meneguzzi F, Mennes M, Mesmoudi S, O'Connor D, Pasaye EH, Peltier S, Poline J-B, Prasad G, Fraga Pereira R, Quirion P-O, Rokem A, Saad ZS, Shi Y, Strother SC, Toro R, Uddin LQ, Van Horn JD, Van Meter JW, Welsh RC, Xu T (2016)
Brainhack: a collaborative workshop for the open neuroscience community
GigaScience 5(1):s13742-016-0121-x
91. Gorgolewski KJ, Varoquaux G, Rivera G, Schwartz Y, Sochat VV, Ghosh SS, Maumet C, Nichols TE, Poline J-B, Yarkoni T, **Margulies DS**, Poldrack RA (2016)
NeuroVault.org: A repository for sharing unthresholded statistical maps, parcellations, and atlases of the human brain
NeuroImage 124(Pt B):1242–4
92. Lohmann G, Stelzer J, Zuber V, Buschmann T, **Margulies D**, Bartels A, Scheffler K (2016)
Task-Related Edge Density (TED)-A New Method for Revealing Dynamic Network Formation in fMRI Data of the Human Brain
PLoS One 11(6):e0158185
- † 93. Goulas A, Schaefer A, **Margulies DS** (2015)
The strength of weak connections in the macaque cortico-cortical network
Brain Struct Funct 220(5):2939–51
- † 94. Gorgolewski KJ, Varoquaux G, Rivera G, Schwarz Y, Ghosh SS, Maumet C, Sochat VV, Nichols TE, Poldrack RA, Poline J-B, Yarkoni T, **Margulies DS** (2015)
NeuroVault.org: a web-based repository for collecting and sharing unthresholded statistical maps of the human brain
Front Neuroinform 9:8
- † 95. Gorgolewski KJ, Mendes N, Wilfling D, Wladimirow E, Gauthier CJ, Bonnen T, Ruby FJ M, Trampel R, Bazin P-L, Cozatl R, Smallwood J, **Margulies DS** (2015)
A high resolution 7-Tesla resting-state fMRI test-retest dataset with cognitive and physiological measures
Sci Data 2:140054
96. Joel D, Berman Z, Tavor I, Wexler N, Gaber O, Stein Y, Shefi N, Pool J, Urchs S, **Margulies DS**, Liem F, Hänggi J, Jäncke L, Assaf Y (2015)
Sex beyond the genitalia: The human brain mosaic
Proc Natl Acad Sci U S A 112(50):15468–73
- † 97. Rohr CS, Dreyer FR, Aderka IM, **Margulies DS**, Frisch S, Villringer A, Okon-Singer H (2015)
Individual differences in common factors of emotional traits and executive functions predict functional connectivity of the amygdala
NeuroImage 120:154–63
98. García-García I, Jurado MA, Garolera M, Marqués-Iturria I, Horstmann A, Segura B, Pueyo R, Sender-Palacios MJ, Vernet-Vernet M, Villringer A, Junqué C, **Margulies DS**, Neumann J (2015)

Functional network centrality in obesity: A resting-state and task fMRI study

Psychiatry Res 233(3):331–8

99. Striem-Amit E, Ovadia-Caro S, Caramazza A, **Margulies DS**, Villringer A, Amedi A (2015)
Functional connectivity of visual cortex in the blind follows retinotopic organization principles
Brain 138(Pt 6):1679–95
100. Nierhaus T, Forschack N, Piper SK, Holtze S, Krause T, Taskin B, Long X, Stelzer J, **Margulies DS**, Steinbrink J, Villringer A (2015)
Imperceptible somatosensory stimulation alters sensorimotor background rhythm and connectivity
J Neurosci 35(15):5917–25
101. Klados MA, Simos P, Micheloyannis S, **Margulies D**, Bamidis PD (2015)
ERP measures of math anxiety: how math anxiety affects working memory and mental calculation tasks?
Front Behav Neurosci 9:282
- †102. Böttger J, Schäfer A, Lohmann G, Villringer A, **Margulies DS** (2014)
Three-dimensional mean-shift edge bundling for the visualization of functional connectivity in the brain
IEEE Trans Vis Comput Graph 20(3):471–80
- †103. Böttger J, Schurade R, Jakobsen E, Schaefer A, **Margulies DS** (2014)
Connexel visualization: a software implementation of glyphs and edge-bundling for dense connectivity data using brainGL
Front Neurosci 8:15
- †104. Callard F, **Margulies DS** (2014)
What we talk about when we talk about the default mode network
Front Hum Neurosci 8:619
105. García-García I, Horstmann A, Jurado MA, Garolera M, Chaudhry SJ, **Margulies DS**, Villringer A, Neumann J (2014)
Reward processing in obesity, substance addiction and non-substance addiction
Obes Rev 15(11):853–869
106. Schaefer A, Burmann I, Regenthal R, Arélin K, Barth C, Pampel A, Villringer A, **Margulies DS**, Sacher J (2014)
Serotonergic modulation of intrinsic functional connectivity
Curr Biol 24(19):2314–8
107. Ovadia-Caro S, **Margulies DS**, Villringer A (2014)
The value of resting-state functional magnetic resonance imaging in stroke
Stroke 45(9):2818–24
108. Witte AV, Kerti L, **Margulies DS**, Flöel A (2014)
Effects of resveratrol on memory performance, hippocampal functional connectivity, and glucose metabolism in healthy older adults
J Neurosci 34(23):7862–70
109. Yang Z, Craddock RC, **Margulies DS**, Yan C-G, Milham MP (2014)
Common intrinsic connectivity states among posteromedial cortex subdivisions: Insights from analysis of temporal dynamics
NeuroImage 93 Pt 1:124–37
- †110. Long X, Goltz D, **Margulies DS**, Nierhaus T, Villringer A (2014)
Functional connectivity-based parcellation of the human sensorimotor cortex
Eur J Neurosci 39(8):1332–42
111. Zuo X-N, Anderson JS, Bellec P, Birn RM, Biswal BB, Blautzik J, Breitner JC S, Buckner RL, Calhoun VD, Castellanos FX, Chen A, Chen B, Chen J, Chen X, Colcombe SJ, Courtney W, Craddock RC, Martino A, Dong H-M, Fu X, Gong Q, Gorgolewski KJ, Han Y, He Y, He Y, Ho E, Holmes A, Hou X-H, Huckins J, Jiang T, Jiang Y, Kelley W, Kelly C, King M, LaConte SM, Lainhart JE, Lei X, Li H-J, Li K, Li K, Lin Q, Liu D, Liu J, Liu X, Liu Y, Lu G, Lu J, Luna B, Luo J, Lurie D, Mao Y, **Margulies DS**, Mayer AR, Meindl T, Meyerand ME, Nan W, Nielsen JA, O'Connor D, Paulsen D, Prabhakaran V, Qi Z, Qiu J, Shao C, Shehzad Z, Tang W, Villringer A, Wang H, Wang K, Wei D, Wei G-X, Weng X-C, Wu X, Xu T, Yang N, Yang Z, Zang Y-F, Zhang L, Zhang Q, Zhang Z, Zhang Z, Zhao K, Zhen Z, Zhou Y, Zhu X-T, Milham MP (2014)
An open science resource for establishing reliability and reproducibility in functional connectomics
Sci Data 1:140049

112. Rojas GM, Gálvez M, Potler N, Craddock RC, **Margulies DS**, Castellanos FX, Milham MP (2014)
Stereoscopic three-dimensional visualization applied to multimodal brain images: clinical applications and a functional connectivity atlas
Front Neurosci 8:328
113. Gorgolewski KJ, Lurie D, Urchs S, Kipping JA, Craddock RC, Milham MP, **Margulies DS**, Smallwood J (2014)
A correspondence between individual differences in the brain's intrinsic functional architecture and the content and form of self-generated thoughts
PLoS One 9(5):e97176
114. Stelzer J, Buschmann T, Lohmann G, **Margulies DS**, Trampel R, Turner R (2014)
Prioritizing spatial accuracy in high-resolution fMRI data using multivariate feature weight mapping
Front Neurosci 8:66
115. Schaefer A, **Margulies DS**, Lohmann G, Gorgolewski KJ, Smallwood J, Kiebel SJ, Villringer A (2014)
Dynamic network participation of functional connectivity hubs assessed by resting-state fMRI
Front Hum Neurosci 8:195
- †116. Gorgolewski KJ, Bazin PL, Engen H, **Margulies DS** (2013)
Fifty shades of gray, matter: Using bayesian priors to improve the power of whole-brain voxel-and connexelwise inferences
IEEE conference publications, 3rd international workshop in pattern recognition in neuroimaging 194–197
- †117. Kipping JA, Grodd W, Kumar V, Taubert M, Villringer A, **Margulies DS** (2013)
Overlapping and parallel cerebello-cerebral networks contributing to sensorimotor control: an intrinsic functional connectivity study
NeuroImage 83:837–48
- *118. **Margulies DS**, Böttger J, Watanabe A, Gorgolewski KJ (2013)
Visualizing the human connectome
NeuroImage 80:445–61 (Cover Article)
- †119. Baird B, Smallwood J, Gorgolewski KJ, **Margulies DS** (2013)
Medial and lateral networks in anterior prefrontal cortex support metacognitive ability for memory and perception
J Neurosci 33(42):16657–65
- *120. **Margulies DS**, Petrides M (2013)
Distinct parietal and temporal connectivity profiles of ventrolateral frontal areas involved in language production
J Neurosci 33(42):16846–52 (Cover Article)
- †121. Koehler S, Ovadia-Caro S, Meer E, Villringer A, Heinz A, Romanczuk-Seiferth N, **Margulies DS** (2013)
Increased functional connectivity between prefrontal cortex and reward system in pathological gambling
PLoS One 8(12):e84565
- †122. Rohr CS, Okon-Singer H, Craddock RC, Villringer A, **Margulies DS** (2013)
Affect and the brain's functional organization: a resting-state connectivity approach
PLoS One 8(7):e68015
- †123. Callard F, Smallwood J, Golchert J, **Margulies DS** (2013)
The era of the wandering mind? Twenty-first century research on self-generated mental activity
Front Psychol 4:891
- †124. Smallwood J, Gorgolewski KJ, Golchert J, Ruby FJ M, Engen H, Baird B, Vinski MT, Schooler JW, **Margulies DS** (2013)
The default modes of reading: modulation of posterior cingulate and medial prefrontal cortex connectivity associated with comprehension and task focus while reading
Front Hum Neurosci 7:734
- †125. Ovadia-Caro S, Villringer K, Fiebach J, Jungehulsing GJ, Meer E, **Margulies DS**, Villringer A (2013)
Longitudinal effects of lesions on functional networks after stroke
J Cereb Blood Flow Metab 33(8):1279–85
126. Gorgolewski KJ, **Margulies DS**, Milham MP (2013)
Making data sharing count: a publication-based solution
Front Neurosci 7:9

127. Lv Y, **Margulies DS**, Craddock R, Long X, Winter B, Gierhake D, Endres M, Villringer K, Fiebach J, Villringer A (2013)
Identifying the perfusion deficit in acute stroke with resting-state functional magnetic resonance imaging
Ann Neurol 73(1):136–40
128. Lv Y, **Margulies DS**, Villringer A, Zang Y-F (2013)
Effects of finger tapping frequency on regional homogeneity of sensorimotor cortex
PLoS One 8(5):e64115
- †129. Callard F, Smallwood J, **Margulies DS** (2012)
Default Positions: How Neuroscience's Historical Legacy has Hampered Investigation of the Resting Mind
Front Psychol 3:321
130. Sehm B, Schäfer A, Kipping J, **Margulies D**, Conde V, Taubert M, Villringer A, Ragert P (2012)
Dynamic modulation of intrinsic functional connectivity by transcranial direct current stimulation
J Neurophysiol 108(12):3253–63
131. Lohmann G, Ovadia-Caro S, Jungehülsing GJ, **Margulies DS**, Villringer A, Turner R (2012)
Connectivity concordance mapping: a new tool for model-free analysis of fMRI data of the human brain
Front Syst Neurosci 6:13
132. Lifshitz M, **Margulies DS**, Raz A (2012)
Lengthy and Expensive? Why the Future of Diagnostic Neuroimaging May Be Faster, Cheaper, and More Collaborative Than We Think
AJOB Neuroscience 3(4):48–50
- *133. Böttger J, **Margulies DS**, Horn P, Thomale UW, Podlipsky I, Shapira-Lichter I, Chaudhry SJ, Szekdlarek C, Mueller K, Lohmann G, Hendler T, Böhner G, Fiebach JB, Villringer A, Vajkoczy P, Abbushi A (2011)
A software tool for interactive exploration of intrinsic functional connectivity opens new perspectives for brain surgery
Acta Neurochir (Wien) 153(8):1561–72
134. Taubert M, Lohmann G, **Margulies DS**, Villringer A, Ragert P (2011)
Long-term effects of motor training on resting-state networks and underlying brain structure
NeuroImage 57(4):1492–8
135. Gee DG, Biswal BB, Kelly C, Stark DE, **Margulies DS**, Shehzad Z, Uddin LQ, Klein DF, Banich MT, Castellanos FX, Milham MP (2011)
Low frequency fluctuations reveal integrated and segregated processing among the cerebral hemispheres
NeuroImage 54(1):517–27
136. Adelstein JS, Shehzad Z, Mennes M, Deyoung CG, Zuo X-N, Kelly C, **Margulies DS**, Bloomfield A, Gray JR, Castellanos FX, Milham MP (2011)
Personality is reflected in the brain's intrinsic functional architecture
PLoS One 6(11):e27633
- *137. **Margulies DS**, Böttger J, Long X, Lv Y, Kelly C, Schäfer A, Goldhahn D, Abbushi A, Milham MP, Lohmann G, Villringer A (2010)
Resting developments: a review of fMRI post-processing methodologies for spontaneous brain activity
MAGMA 23(5-6):289–307
138. Zuo X-N, Kelly C, Martino A, Mennes M, **Margulies DS**, Bangaru S, Grzadzinski R, Evans AC, Zang Y-F, Castellanos FX, Milham MP (2010)
Growing together and growing apart: regional and sex differences in the lifespan developmental trajectories of functional homotopy
J Neurosci 30(45):15034–43
139. Kelly C, Uddin LQ, Shehzad Z, **Margulies DS**, Castellanos FX, Milham MP, Petrides M (2010)
Broca's region: linking human brain functional connectivity data and non-human primate tracing anatomy studies
Eur J Neurosci 32(3):383–98
140. Sajonz B, Kahnt T, **Margulies DS**, Park SQ, Wittmann A, Stoy M, Ströhle A, Heinz A, Northoff G, Berman F (2010)
Delineating self-referential processing from episodic memory retrieval: common and dissociable networks
NeuroImage 50(4):1606–17

141. Lohmann G, **Margulies DS**, Horstmann A, Pleger B, Lepsien J, Goldhahn D, Schloegl H, Stumvoll M, Villringer A, Turner R (2010)
Eigenvector centrality mapping for analyzing connectivity patterns in fMRI data of the human brain
PLoS One 5(4):e10232
142. Biswal BB, Mennes M, Zuo X-N, Gohel S, Kelly C, Smith SM, Beckmann CF, Adelstein JS, Buckner RL, Colcombe S, Dogonowski A-M, Ernst M, Fair D, Hampson M, Hoptman MJ, Hyde JS, Kiviniemi VJ, Kötter R, Li S-J, Lin C-P, Lowe MJ, Mackay C, Madden DJ, Madsen KH, **Margulies DS**, Mayberg HS, McMahon K, Monk CS, Mostofsky SH, Nagel BJ, Pekar JJ, Peltier SJ, Petersen SE, Riedl V, Rombouts SA R B, Rypma B, Schlaggar BL, Schmidt S, Seidler RD, Siegle GJ, Sorg C, Teng G-J, Veijola J, Villringer A, Walter M, Wang L, Weng X-C, Whitfield-Gabrieli S, Williamson P, Windischberger C, Zang Y-F, Zhang H-Y, Castellanos FX, Milham MP (2010)
Toward discovery science of human brain function
Proc Natl Acad Sci U S A 107(10):4734–9
- *143. **Margulies DS**, Vincent JL, Kelly C, Lohmann G, Uddin LQ, Biswal BB, Villringer A, Castellanos FX, Milham MP, Petrides M (2009)
Precuneus shares intrinsic functional architecture in humans and monkeys
Proc Natl Acad Sci U S A 106(47):20069–74
144. Shehzad Z, Kelly AM C, Reiss PT, Gee DG, Gotimer K, Uddin LQ, Lee SH, **Margulies DS**, Roy AK, Biswal BB, Petkova E, Castellanos FX, Milham MP (2009)
The resting brain: unconstrained yet reliable
Cereb Cortex 19(10):2209–29
145. Roy AK, Shehzad Z, **Margulies DS**, Kelly AM C, Uddin LQ, Gotimer K, Biswal BB, Castellanos FX, Milham MP (2009)
Functional connectivity of the human amygdala using resting state fMRI
NeuroImage 45(2):614–26
146. Kelly AM C, Martino A, Uddin LQ, Shehzad Z, Gee DG, Reiss PT, **Margulies DS**, Castellanos FX, Milham MP (2009)
Development of anterior cingulate functional connectivity from late childhood to early adulthood
Cereb Cortex 19(3):640–57
147. Martino A, Scheres A, **Margulies DS**, Kelly AM C, Uddin LQ, Shehzad Z, Biswal B, Walters JR, Castellanos FX, Milham MP (2008)
Functional connectivity of human striatum: a resting state FMRI study
Cereb Cortex 18(12):2735–2747
- *148. Stark DE, **Margulies DS**, Shehzad ZE, Reiss P, Kelly AM C, Uddin LQ, Gee DG, Roy AK, Banich MT, Castellanos FX, Milham MP (2008)
Regional variation in interhemispheric coordination of intrinsic hemodynamic fluctuations
J Neurosci 28(51):13754–64
149. Uddin LQ, Mooshagian E, Zaidel E, Scheres A, **Margulies DS**, Kelly AM C, Shehzad Z, Adelstein JS, Castellanos FX, Biswal BB, Milham MP (2008)
Residual functional connectivity in the split-brain revealed with resting-state functional MRI
Neuroreport 19(7):703–9
150. Uddin LQ, Kelly AM C, Biswal BB, **Margulies DS**, Shehzad Z, Shaw D, Ghaffari M, Rotrosen J, Adler LA, Castellanos FX, Milham MP (2008)
Network homogeneity reveals decreased integrity of default-mode network in ADHD
J Neurosci Methods 169(1):249–54
151. Castellanos FX, **Margulies DS**, Kelly C, Uddin LQ, Ghaffari M, Kirsch A, Shaw D, Shehzad Z, Martino A, Biswal B, Sonuga-Barke EJ S, Rotrosen J, Adler LA, Milham MP (2008)
Cingulate-precuneus interactions: a new locus of dysfunction in adult attention-deficit/hyperactivity disorder
Biol Psychiatry 63(3):332–7
152. Michanie C, Kunst G, **Margulies DS**, Yakhkind A (2007)
Symptom prevalence of ADHD and ODD in a pediatric population in Argentina
J Atten Disord 11(3):363–7
153. Kelly AM C, **Margulies DS**, Castellanos FX (2007)
Recent advances in structural and functional brain imaging studies of attention-deficit/hyperactivity disorder
Curr Psychiatry Rep 9(5):401–7

- *154. **Margulies DS**, Kelly AM C, Uddin LQ, Biswal BB, Castellanos FX, Milham MP (2007)
Mapping the functional connectivity of anterior cingulate cortex
NeuroImage 37(2):579–88
- 155. Lamprecht R, **Margulies DS**, Farb CR, Hou M, Johnson LR, LeDoux JE (2006)
Myosin light chain kinase regulates synaptic plasticity and fear learning in the lateral amygdala
Neuroscience 139(3):821–9

Book Chapters

1. **Margulies DS**, Ovadia-Caro S, Saadon-Grosman N, Bernhardt B, Jefferies B, Smallwood J (*In press*)
Cortical Gradients and Their Role in Cognition
 In: *Encyclopedia of Behavioral Neuroscience, 2nd edition*
 (eds Koob G, Le Moal M, Thompson R) Amsterdam: Elsevier
2. Liem F, Geerligs L, Damoiseaux JS, **Margulies DS** (2019)
Functional Connectivity in Aging
 In: *Handbook of the Psychology of Aging, 9th edition*
 (eds Schaie KW & Willis S) Cambridge: Academic Press
3. **Margulies DS**, Uddin LQ (2019)
Network convergence zones in the anterior midcingulate cortex
 In: *Handbook of Clinical Neurology: Cingulate Cortex*
 (ed Vogt B) Amsterdam: Elsevier. Vol 166: pp 103-111
4. Burns RP, **Margulies DS**, Haueis P (2019)
From regions to networks: Neuroimaging approaches to mapping brain organization
 In: *The Dark Side of Brain Imaging*
 (eds Amir Raz and Robert T. Thibault) Cambridge: Academic Press
5. Smallwood J, **Margulies DS**, Bernhardt BC, Jefferies E (2018)
Investigating the Elements of Thought: Toward a Component Process Account of Spontaneous Cognition
 In: *The Oxford Handbook of Spontaneous Thought: Mind-Wandering, Creativity, and Dreaming*
 (eds Kalina Christoff and Kieran C.R. Fox) New York: Oxford University Press
6. Nierhaus T, **Margulies DS**, Long XY, Villringer A (2012)
fMRI for the assessment of functional connectivity
 In: *Neuroimaging – Methods*
 (ed Peter Bright) Rijeka, Croatia: InTech Publishing
7. **Margulies DS** (2012)
The salmon of doubt: Six months of methodological controversy within social neuroscience
 In: *Critical neuroscience. A handbook of the social and cultural contexts of neuroscience*
 (eds Suparna Choudhury and Jan Slaby) Chichester: Wiley-Blackwell
8. **Margulies DS** (2011)
Seeing behind the eyes
 In: *Seeing with the eyes closed*
 (eds Alexander Abbushi, Ivana Franke, and Ida Mommenejad) Berlin: Association of Neuroesthetics
9. Callard F & **Margulies DS** (2011)
The industrious subject: Cognitive neuroscience's revaluation of 'rest'
 In: *Cognitive architecture: From bio-politics to noo-politics – architecture & mind in the age of communication and information*
 (eds Deborah Hauptmann and Warren Neidich) Rotterdam: 010 Publishers
10. Callard F & **Margulies DS** (2010)
The subject "at rest": Cognitive neuroscience's struggle with the dark side of cognition
 In: *Habitus & habitat II: Other sides of cognition*
 (eds Sabine Flach, Daniel S. Margulies, and Jan Soeffner) Bern: Peter Lang
11. Obrig H, Draganski B, **Margulies DS**, Steinbrink S (2010)
Mechanisms of learning in the healthy brain and after stroke, as assessed with imaging techniques
 In: *Module 2: Neuroanatomy, cognition and plasticity*
 (eds Agnes Flöel and Arno Villringer) Centrum für Schlaganfallforschung Berlin: Charité Universitätsmedizin Berlin

12. Glaser PEA, Castellanos FX, **Margulies DS** (2007)
Neuropharmacology of attention-deficit / hyperactivity disorder
In: *Handbook of contemporary neuropharmacology*
(eds David Sibley, Israel Hanin, Michael Kuhar, and Phil Skolnick) Wiley-Interscience

Book Reviews

1. **Margulies DS** (2014)
A tight circle of critique
[Review of the book: Francisco Ortega and Fernando Vidal (eds). *Neurocultures: Glimpses into an expanding universe*. Frankfurt am Main: Peter Lang GmbH. 2011]
BioSocieties, 9, 360-362
2. **Margulies DS** (2010)
[Review of the book: by Louis Cozolino, *The neuroscience of human relationships: Attachment and the developing social brain*. New York: W. W. Norton & Company. 2006]
Neuropsychanalysis, 12:1, 95-102

Edited Books & Journal Special Issues

1. **Margulies DS**, Bernhardt B, Smallwood J, Keilholz S (eds) (*In prep*)
Gradients in Brain Organization
NeuroImage
2. Choudhury S, Slaby S, **Margulies DS** (eds) (2014)
Critical neuroscience: The context and implications of human brain research
Frontiers in Human Neuroscience
3. **Margulies DS** & Petrides M (eds) (2012)
Mapping connectivity of the human cerebral cortex
Frontiers in Neuroanatomy
4. Flach S, **Margulies DS**, Soeffner J (eds) (2010)
Habitus & Habitat I: Emotion and Motion
Bern: Peter Lang