



2021

Daneault, V., Orban, P., Martin, N., Dansereau, C., Godbout, J., Pouliot, P., Dickinson, P., Gosselin, N., Vandewalle, G., Maquet, P., Lina, J.M., Doyon, J., Bellec, P., et Carrier, J. (2021) Cerebral functional networks during sleep in young and older individuals. *Scientific reports*. 11 1: 4905. [Pubmed](#)

Moreau, C., Huguet, G., Urchs, S., Kumar, K., Douard, E., Sharmarke, H., **Orban, P.**, Linden, D., Maillard, A., Lippe, S., Bearden, C., Thompson, P.M., Bellec, P., et Jacquemont, S. (2021) The General Impact of Haploinsufficiency on Brain Connectivity Underlies the Pleiotropic Effect of Neuropsychiatric CNVs. 2021 Annual Scientific Convention and Meeting Biological Psychiatry. Virtual, Online, May 01, 89 S40. *Conference proceeding*

2020

Moreau, C.A., Urchs, S.G.W., Kuldeep, K., **Orban, P.**, Schramm, C., Dumas, G., Labbé, A., Huguet, G., Douard, E., Quirion, P.O., Lin, A., Kushan, L., *Grot, S., Luck, D., Mendrek, A., Potvin, S., Stip, E., Bourgeron, T., Evans, A.C., Bearden, C.E., Bellec, P., et Jacquemont, S. (2020) Mutations associated with neuropsychiatric conditions delineate functional brain connectivity dimensions contributing to autism and schizophrenia. *Nature communications*. 11 1: 5272. [Pubmed](#)

Badhwar, A., Collin-Verreault, Y., **Orban, P.**, Urchs, S., Chouinard, I., Vogel, J., Potvin, O., Duchesne, S., et Bellec, P. (2020) Multivariate consistency of resting-state fMRI connectivity maps acquired on a single individual over 2.5 years, 13 sites and 3 vendors. *Neuroimage*. 205: 116210. [Pubmed](#)

2019

Tam, A., Dansereau, C., Iturria-Medina, Y., Urchs, S., **Orban, P.**, Sharmarke, H., Breitner, J., Bellec, P., et Alzheimer's Disease Neuroimaging, I. (2019) A highly predictive signature of cognition and brain atrophy for progression to Alzheimer's dementia. *Gigascience*. 8 5. [Pubmed](#)

2018

Orban, P., Dansereau, C., Desbois, L., Mongeau-Perusse, V., Giguere, C.E., Nguyen, H., Mendrek, A., Stip, E., et Bellec, P. (2018) Multisite generalizability of schizophrenia diagnosis classification based on functional brain connectivity. *Schizophrenia research*. 192: 167-171. [Pubmed](#)

Vogel, J.W., Vachon-Preseu, E., Pichet Binette, A., Tam, A., **Orban, P.**, La Joie, R., Savard, M., Picard, C., Poirier, J., Bellec, P., Breitner, J.C.S., Villeneuve, S., Alzheimer's Disease Neuroimaging, I., et the, P.-A.D.R.G. (2018) Brain properties predict proximity to symptom onset in sporadic Alzheimer's disease. *Brain*. 141 6: 1871-1883. [Pubmed](#)

Urchs, S., Armoza, J., Benhajali, Y., St-Aubin, J., **Orban, P.**, et Bellec, P. (2018) MIST: A multi-resolution parcellation of functional brain networks. *MNI Open Research*. 1 3. [Abstract](#)



2017

Badhwar, A., Tam, A., Dansereau, C., **Orban, P.**, Hoffstaedter, F., et Bellec, P. (2017) Resting-state network dysfunction in Alzheimer's disease: A systematic review and meta-analysis. *Alzheimer's & Dementia (Amsterdam)*. 8: 73-85. [Pubmed](#)

Dansereau, C., Benhajali, Y., Risterucci, C., Pich, E.M., Orban, P., Arnold, D., et Bellec, P. (2017) Statistical power and prediction accuracy in multisite resting-state fMRI connectivity. *Neuroimage*. 149: 220-232. [Pubmed](#)

Pelland, M., **Orban, P.**, Dansereau, C., Lepore, F., Bellec, P., et Collignon, O. (2017) State-dependent modulation of functional connectivity in early blind individuals. *Neuroimage*. 147: 532-541. [Pubmed](#)

Orban, P., Desseilles, M., Mendrek, A., Bourque, J., Bellec, P., et Stip, E. (2017) Altered brain connectivity in patients with schizophrenia is consistent across cognitive contexts. *Journal of Psychiatry & Neuroscience*. 42 1: 17-26. [Pubmed](#)

Nguyen, H.D., McLachlan, G.J., **Orban, P.**, Bellec, P., et Janke, A.L. (2017) Maximum Pseudolikelihood Estimation for Model-Based Clustering of Time Series Data. *Neural Computation*. 1-31. [Pubmed](#)

2016

Tam, A., Dansereau, C., Badhwar, A., **Orban, P.**, Belleville, S., Chertkow, H., Dagher, A., Hanganu, A., Monchi, O., Rosa-Neto, P., Shmuel, A., Breitner, J., Bellec, P., et Alzheimers Disease Neuroimaging, I. (2016) A dataset of multiresolution functional brain parcellations in an elderly population with no or mild cognitive impairment. *Data in brief*. 9: 1122-1129. [Pubmed](#)

Albouy G, King B, Schmidt C, Desseilles M, Dang-Vu TT, Balteau E, Phillips C, Degueldre C, **Orban P**, Benali H, Peigneux P, Luxen A, Karni A, Doyon J, Maquet P, Korman M (2016). Cerebral activity associated with transient sleep-facilitated reduction in motor memory vulnerability to interference. *Scientific Reports*. 6:34948. [Pubmed](#)

Berrewaerts J, Delbecque L, **Orban P**, Desseilles M (2016). Patient participation and the use of ehealth tools for pharmacovigilance. *Frontiers in Pharmacology*. 7:90. [Pubmed](#)

2015

Orban P, Doyon J, Petrides M, Mennes M, Hoge R, Bellec P (2015). The richness of task-evoked hemodynamic responses defines a hierarchy of functionally meaningful brain networks. *Cerebral Cortex*. 25, 2658-2669. [Pubmed](#)

Tam, A., Dansereau, C., Badhwar, A., **Orban, P.**, Belleville, S., Chertkow, H., Dagher, A., Hanganu, A., Monchi, O., Rosa-Neto, P., Shmuel, A., Wang, S., Breitner, J., Bellec, P., et Alzheimer's Disease Neuroimaging, I. (2015) Common Effects of Amnesic Mild Cognitive Impairment on Resting-State Connectivity Across Four Independent Studies. *Frontiers in aging neuroscience*. 7: 242. [Pubmed](#)

Bellec, P., Benhajali, Y., Carbonell, F., Dansereau, C., Albouy, G., Pelland, M., Craddock, C., Collignon, O., Doyon, J., Stip, E., et **Orban, P.** (2015). Impact of the resolution of brain



parcels on connectome- wide association studies in fMRI. *Neuroimage*,123. 212-28.
[Pubmed](#)

Orban P, Madjar C, Savard M, Dansereau C, Tam A, Das S, Evans A, Rosa-Neto P, Breitner J, Bellec P, and the PREVENT-AD research group. (2015) Test-retest resting-state fMRI in healthy elderly persons with a family history of Alzheimer's disease. *Scientific Data*, 2:150043. [Pubmed](#)

Tam, A., Dansereau, C., Badhwar, A.P., **Orban, P.**, Belleville, S., Chertkow, H., Dagher, A., Hanganu, A., Monchi, O., Rosa-Neto, P., Shmuel, A., Wang, S., Breitner, J., et Bellec, P. (2015) Consistent inter-protocol differences in resting-state functional connectomes between normal aging and mild cognitive impairment. *bioRxiv*. 019646. [Abstract](#)

2011

Doyon J, **Orban P**, Barakat M, Debas K, Lungu O, Albouy G, Fogel S, Proulx S, Laventure S, Deslauriers J, Duchesne C, Carrier J, Benali H (2011). Functional brain plasticity associated with motor learning. *Medical Sciences (Paris)*. 27, 413-420. [Pubmed](#)

Orban P, Peigneux P, Lungu O, Debas K, Barakat M, Bellec P, Benali H, Maquet P, Doyon J (2011). Functional neuroanatomy associated with the expression of distinct movement kinematics in motor sequence learning. *Neuroscience*. 179, 94-103. [Pubmed](#)

2010

Orban, P., Peigneux, P., Lungu, O., Albouy, G., Breton, E., Laberrenne, F., Benali, H., Maquet, P., et Doyon, J. (2010). The multifaceted nature of the relationship between performance and brain activity in motor sequence learning. *NeuroImage*. 49, 694-702. [Pubmed](#)

Debas, K., Carrier, J., Orban, P., Barakat, M., Lungu, O., Vandewalle, G., Hadj Tahar, A., Bellec, P., Karni, A., Ungerleider, L.G., Benali, H., et Doyon, J. (2010). Brain plasticity related to the consolidation of motor sequence learning and motor adaptation. *Proceedings of the National Academy of Sciences of the United States of America*. 107 41: 17839-17844. [Pubmed](#)

2008

Rauchs, G., **Orban, P.**, Schmidt, C., Albouy, G., Balteau, E., Degueldre, C., Schnackers, C., Sterpenich, V., Tinguely, G., Luxen, A., Maquet, P., et Peigneux, P. (2008) Sleep modulates the neural substrates of both spatial and contextual memory consolidation. *PLoS One*. 3 8: e2949. [Pubmed](#)

Rauchs, G., Orban, P., Balteau, E., Schmidt, C., Degueldre, C., Luxen, A., Maquet, P., et Peigneux, P. (2008) Partially segregated neural networks for spatial and contextual memory in virtual navigation. *Hippocampus*. 18 5: 503-518. [Pubmed](#)

Orban, P., Lungu, O., et Doyon, J. (2008) Motor sequence learning and developmental



dyslexia. *Annals of the New-York Academy of Sciences*. 1145: 151-172. [Pubmed](#)

2007

Lungu, O. et **Orban, P.** (2007) fMRI detection of spinal activity during voluntary movements. *The Journal of neuroscience: the official journal of the Society for Neuroscience*. 27 31: 8157-8. [Pubmed](#)

2006

Orban, P., Rauchs, G., Balteau, E., Degueldre, C., Luxen, A., Maquet, P., et Peigneux, P. (2006) Sleep after spatial learning promotes covert reorganization of brain activity. *Proceedings of the National Academy of Sciences of the United States of America*. 103 18: 7124-7129. [Pubmed](#)

Peigneux, P., **Orban, P.**, Balteau, E., Degueldre, C., Luxen, A., Laureys, S., et Maquet, P. (2006) Offline persistence of memory-related cerebral activity during active wakefulness. *PLoS Biol.* 4 4: e100. [Pubmed](#)