



**2021**

\*Bougeard, A., \*Guay Hottin, R., Houde, V., Jean, T., Piront, T., Potvin, S., Bernard, P., Tourjman, V., De Benedictis, L., et **Orban, P.** (2021) Improved Mental Health Clinical Practice Informed by Digital Phenotyping. *Santé mentale au Québec.* 46 1: 135-136. [Pubmed](#)

\*Grot, S., Giguère, C., Smine, S., Mongeau-Pérusse, V., Nguyen, D.D., Preda, A., Potvin, S., van Erp, T.G.M., Fbirn, et **Orban, P.** (2021 epub ahead of print) Converting scores between the PANSS and SAPS/SANS beyond the positive/negative dichotomy. *Psychiatry research.* 305: 114199. [Pubmed](#)

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](#)

Badhwar, A., Collin-Verreault, Y., Lussier, D., Sharmarke, H., **Orban, P.**, Urchs, S., Chouinard, I., Vogel, J., Potvin, O., Duchesne, S., et Bellec, P. (2020) A dataset of long-term consistency values of resting-state fMRI connectivity maps in a single individual derived at multiple sites and vendors using the Canadian Dementia Imaging Protocol. *Data Brief.* 31: 105699. [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](#)



Badhwar, A.P., 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. [Abstract](#)

Fryer, D., Nguyen, H., et **Orban, P.** (2019) studentlife: Tidy Handling and Navigation of a Valuable Mobile-Health Dataset. *Journal of Open Source Software*. 4 40: 1587. [Abstract](#)

### **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-Presseau, 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 Alzheimer's 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., Laberenne, 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](#)