

# Filip Morys, PhD

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<https://filipmorys.github.io/>

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## Education

- 2013-2019**      **PhD student/researcher**  
Integrated Research and Treatment Center Adiposity Diseases, Leipzig University Medical Center;  
Max Planck Institute for Human Cognitive and Brain Sciences, Decision-making in obesity: neurobiology,  
behavior and plasticity group (Dr. Annette Horstmann), Leipzig, Germany  
PhD thesis: Characterising and altering maladaptive behaviours and tendencies in obesity
- 2011-2013**      **Master's Degree**  
International Graduate Program Medical Neurosciences; final grade: 1.9<sup>1</sup>  
Charité – Medical University, Berlin, Germany  
Master's thesis: Decoding task sets from human brain activity
- 2008-2011**      **Bachelor's Degree**  
Neurobiology; final grade: 5,0<sup>2</sup>  
Jagiellonian University, Cracow, Poland  
Bachelor's thesis: Neuropsychology of prospective memory
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## Professional experience

- 2019-currently**      **Postdoctoral fellow/Research associate**  
Montreal Neurological Institute, McGill University, Montreal, Canada
- 2018-2020**      **Research Scientist**  
CodersFirst, Warsaw, Poland.  
Development of cognitive and personality testing for IT recruitment
- 2012-2013**      **Research master's thesis**  
Bernstein Center for Computational Neuroscience, Laboratory of Theory and Analysis of Large-Scale  
Brain Signals (Prof. Dr. John-Dylan Haynes); Berlin, Germany
- 2012**      **Laboratory Rotation**  
Dahlem Institute for Neuroimaging of Emotions (Prof. Dr. Felix Blankenburg); Berlin, Germany
- 2012**      **Laboratory Rotation**  
Charité – Medical University Berlin, Working Group Cognition, Ageing, Neurorehabilitation (Prof.  
Dr. Agnes Flöel); Berlin, Germany
- 2010**      **Internship**  
Nencki Institute for Experimental Biology, Laboratory of Preclinical Studies for Neurodegenerative  
Diseases (Prof. Dr. Grazyna Niewiadomska); Warsaw, Poland
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<sup>1</sup> Results graded on a normalised scale from 1,0 – 'very good' ,to 5,0 – 'insufficient'

<sup>2</sup> Results graded on a normalised scale from 2,0 – 'insufficient' ,to 5,0 – 'very good'

## Academic service & outreach

<b>2025</b>	Chair of the Canada Excellence Research Chair Equity, Diversity, and Inclusivity in Action Committee
<b>2024</b>	Mentorship committee member of MyRoad - Maximize your Research on Obesity and Diabetes
<b>2024</b>	Guest Editor – Frontiers in Neuroscience
<b>2023</b>	Associate Editor – Journal of Alzheimer's Disease
<b>2020-2022</b>	Secretary of the Student and Postdoc Special Interest Group of the Organization for Human Brain Mapping
<b>2020-currently</b>	Member of the Postgraduate Student Society Equity and Diversity Committee
<b>2020-currently</b>	Organization for Human Brain Mapping meeting abstract reviewer
<b>2021</b>	Organization for Human Brain Mapping Annual Meeting organizer and moderator of workshops and symposia of the Student and Postdoc Special Interest Group
<b>2020</b>	Neuromatch 2.0 Conference organization and abstract reviewer
<b>2016-2018</b>	Member of the Data Quality Assurance Team in the Neurology Department at the Max Planck Institute for Human Cognitive and Brain Sciences; Leipzig, Germany
<b>2017</b>	Organisation of International Research Training Group Autumn School, Leipzig, Germany
<b>2012-2015</b>	Writer and editor of the Charité Neuroscience Newsletter, a quarterly magazine devoted to newest topics in neuroscience
<b>2012-2013</b>	Creator of a handbook of Medical Neurosciences for future students
<b>2011</b>	Organization of the International Brain Research Organization Neuroscience Forum Neuronus, Jagiellonian University; Cracow, Poland

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## Awards & Honours

<b>2023</b>	Society for the Study of Ingestive Behavior New Investigator Travel Award for the project: 'Influence of obesity and MAPT/ApoE genotypes on brain structure and cognition' – 500 USD
<b>2022</b>	Relève étoile Jacques Genest award for best publication – 1,000 CAD
<b>2022</b>	Lewis Reford Travel Award, Montreal Neurological Institute – 1,500 CAD
<b>2021</b>	Harry R. Kissileff award for the best short oral presentation at the Annual Meeting of the Society for the Study of Ingestive Behavior
<b>2020</b>	Lewis Reford Travel Award, Montreal Neurological Institute – 1,500 CAD
<b>2018</b>	Research Academy Leipzig Travel Grant – 715 EUR
<b>2017</b>	Grant: Understanding the contribution of hemispheric asymmetry to overeating behaviour in obesity. PIs: Dr. Lieneke Janssen, Dr. Annette Horstmann. German Federal Ministry of Education and Research. Role: Conceptualisation of the proposed project.
<b>2017</b>	Research Academy Leipzig Travel Grant – 135 EUR
<b>2017</b>	Society for the Study of Ingestive Behavior New Investigator Travel Award for the project: 'Neural correlates of retraining automatic action tendencies in obesity' – 1,000 USD
<b>2017</b>	German Obesity Society best poster award for the project: 'Neural correlates of retraining automatic action tendencies in obesity' – 500 EUR
<b>2014</b>	Travel grant and stipend to attend Obesity Summer Bootcamp 2014 – Leipzig University – 3,000 EUR
<b>2012/2013</b>	Fellowship for up-and-coming scientists by the NeuroCure Cluster of Excellence; Berlin, Germany – 11,000 EUR

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## Teaching

<b>2018</b>	fMRI analysis with SPM. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, 2018-09 – 2018-10.
<b>2015</b>	Maladaptive plasticity in behavioral disorders and addictions. Lecture. Berlin School of Mind and Brain, Humboldt University Berlin, Germany, 2015-10-06 – 2015-10-08.

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## Invited talks

<b>2025</b>	<i>Obesity, metabolism, diet, and brain health.</i> Neurology Grand Rounds. The Montreal Neurological Institute, McGill University, Montreal, Canada.
<b>2025</b>	<i>Ultra-processed food consumption affects structural integrity of feeding-related brain regions independent and via adiposity.</i> Modern Diet and Physiology Research Center, McGill University, Montreal, Canada.
<b>2024</b>	<i>Brain-obesity interactions across the lifespan: insights from population-based cohorts.</i> New York University. New York, USA.
<b>2024</b>	<i>Neurocognitive correlates of chronic obesity.</i> Society for the Study of Ingestive Behavior. Chicago, USA.
<b>2024</b>	<i>Methods of neuroscientific inquiry.</i> Talk presented in a Polish high school for Brain Awareness Week. Tarnowskie Gory, Poland.
<b>2023</b>	<i>Mindful of your waistline: the relationship between obesity, brain atrophy, and cognitive decline.</i> MoCA Cognition. Online seminar for health practitioners.
<b>2023</b>	<i>Neural correlates of obesity across the lifespan.</i> Centre Hospitalier Universitaire Sainte-Justine. Montreal, Canada.
<b>2021</b>	<i>Navigating academic career after PhD.</i> Alumni talk series. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
<b>2020</b>	<i>Influence of metabolic syndrome on brain and cognition.</i> Modern Diet and Physiology Research Center, Yale University, New Haven, USA.
<b>2019</b>	<i>Does intranasal insulin administration preserve cognitive function after cardiac surgery?</i> MRI aspect of the study at the McGill University Medical Centre

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## Supervision and mentoring

<b>2024-currently</b>	Shilan Heshmati (graduate, PhD program)
<b>2023-currently</b>	Mayuri Maheswaran (graduate, MSc program)
<b>2023-2024</b>	Karl Wennberg (research assistant)
<b>2023-2024</b>	Max Tweedale (undergraduate)
<b>2022</b>	Yuxin Zhou (undergraduate)
<b>2022</b>	Elena Ock (undergraduate)
<b>2021-2022</b>	Jessica Yu (graduate, MSc program)
<b>2020-currently</b>	Mari Shishikura (graduate, PhD program)
<b>2017</b>	Christina Breil (undergraduate)
<b>2014</b>	Parniane Arbab-Zadeh (undergraduate)
<b>2014</b>	Maram Amara (undergraduate)
<b>2014</b>	Mailin Krüger (undergraduate)

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## Funding

<b>2025</b>	<i>Funded: Effects of GLP1 agonist-induced weight loss on cerebral and blood markers of neurodegeneration in individuals with obesity and genetic risk for Alzheimer's disease.</i> <i>Budget: 1,057,080</i> <i>PI: Alain Dagher</i> Co-Applicants: Filip Morys, Dana Small, Claudine Gauthier, Christine Tardif, Yashar Zeighami, Xiao Wen Hu, Sylvia Villeneuve, Natasha Rajah, Ian Patton Canadian Institutes of Health Research, Team Grant, Canadian Consortium on Neurodegeneration in Aging (CCNA) Phase III: Research Teams
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<b>2025</b>	<p><i>Funded: Effects of GLP1-agonist induced weight loss on brain, metabolic, and cerebrovascular health measures.</i></p> <p>Budget: CAD 1,346,400</p> <p>PI: Alain Dagher</p> <p>Co-Applicants: Filip Morys, Dana Small, Stephanie Fulton, Claudine Gauthier, Christine Tardif, Yashar Zeighami, Xiao Wen Hu, Bratislav Misic, Michael Tsoukas</p> <p>Canadian Institutes of Health Research. Project Grant Fall 2024.</p> <p>Contributions: Study conceptualisation, study design, grant writing</p>
<b>2024</b>	<p><i>Funded: An MRI study of metabolic and cerebrovascular health</i></p> <p>Budget: 10,000 CAD</p> <p>PI: Filip Morys, Alain Dagher</p> <p>Canada Excellence Research Chair Symposium Pilot Project Award</p> <p>Contributions: Study conceptualisation, study design, grant writing</p>
<b>2023</b>	<p><i>Funded: Measuring the effects of poor metabolic health on the brain.</i></p> <p>Budget: CAD 50,000</p> <p>PI: Alain Dagher</p> <p>Co-Applicants: Filip Morys, Bratislav Misic, Claudine Gauthier, Christine Tardif, Michael Tsoukas, Xiao Wen Hu</p> <p>The Cognitive Neuroscience Knowledge Exchange for Clinical Translation (CONNECT) project.</p> <p>Healthy Brains for Healthy Lives.</p>
<b>2023</b>	<p><i>Funded: Advanced MRI measures of obesity-related brain damage.</i></p> <p>Budget: CAD 25,000</p> <p>PI: Alain Dagher</p> <p>Co-Applicants: Filip Morys, Claudine Gauthier, Christine Tardif</p> <p>McConnell Brain Imaging Centre Collaboration Program FY24</p> <p>Contributions: Study conceptualisation, study design, grant writing</p>
<b>2022-2023</b>	<p>Fonds de Recherche Quebec – Santé Postdoctoral Fellowship</p> <p>Budget: CAD 90,000</p> <p>Main applicant: Filip Morys</p> <p>Supervisor: Alain Dagher</p>

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## Publications

1. **Morys F**, Liu L, Senkevich K, Gan-Or Z, Dagher A. Obesity-related brain atrophy occurs through mechanisms independent of Alzheimer's disease pathology. *Journal of Alzheimer's Disease*. 2025.
2. Merz E, **Morys F**, Hansen M, Strack J, Jacobs L, Vainik U, Shishikura M, Myers B. Socioeconomic factors, brain-derived neurotrophic factor Val66Met polymorphism, and cortical structure in children and adolescents. *Scientific Reports*. 2025.
3. **Morys F\***, Kanyamibwa A\*, Fängström D, Tweedale M, Pastor-Bernier A, Azizi H, Liu L, Horstmann A, Dagher A. Ultra-processed food consumption affects structural integrity of feeding-related brain regions independent and via adiposity. *Npj Metabolic Health and Disease*. 2025.
4. Tremblay C, Rahayel S, Pastor-Bernier A, St-Onge F, Vo A, Rheault F, Daneault V, **Morys F**, Rajah N, Villeneuve S, Dagher A. Pattern of mechanisms of atrophy progression in individuals with a family history of Alzheimer's disease: a comparative study. *Brain Communications*. 2025
5. Bouhadoun S, Zolfaghari S, Delva A, Pelletier A, Kouchache T, Dagher A, **Morys F**, Vo A, Kuhlencord M, Postuma R. Exploring the Nicotine-Parkinson's disease link – Insights from the UK Biobank. *Parkinsonism and Related Disorders*. 2024.
6. **Morys F\***, Tweedale M\*, Pastor-Bernier A, Azizi H, Tremblay C, Dagher A. Obesity and diffusion-weighted imaging of subcortical grey matter in young and older adults. *Appetite*. 2024.

7. **Morys F**, Tremblay C, Rahayel S, Hansen JY, Dai A, Misic B, et al. Neural correlates of obesity across the lifespan. *Communications Biology*. 2024.
8. **Morys F**, Yu E, Shishikura M, Paquola C, Vainik U, Nave G, Koellinger P, Gan-Or Z, Dagher A. Neuroanatomical Correlates of Genetic Risk for Obesity in Children. *Translational Psychiatry*. 2023.
9. **Morys F**, Potvin O, Zeighami Y, Vogel J, Lamontagne-Caron R, Duchesne S, Dagher A. Obesity-Associated Neurodegeneration Pattern Mimics Alzheimer's Disease in an Observational Cohort Study. *Journal of Alzheimer's Disease*. 2023.
10. Yu J, **Morys F**, Dagher A, Lajoie A, Gomes T, Ock E, Kimoff RJ, Kaminska M. Associations between sleep-related symptoms, obesity, cardiometabolic conditions, brain structural alterations and cognition in the UK biobank. *Sleep Medicine*. 2023.
11. Hartmann H, Janssen L, Herzog N, **Morys F**, Fängström D, Fallon SJ, Horstmann A. Self-reported intake of high-fat and high-sugar diet is not associated with cognitive stability and flexibility in healthy men. *Appetite*. 2023.
12. **Morys F\***, Shishikura M\*, Dagher A. Population-based research in obesity – an overview of neuroimaging studies using big data approach. *Current Opinion in Endocrine and Metabolic Research*. 2022.
13. Yang Y, Qi L, **Morys F**, Wu Q, Chen H. Food-specific inhibition training for food devaluation: A meta-analysis. *Nutrients*. 2022
14. García-García I, Michaud A, María-Jurado Á, Dagher A, **Morys F**. Mechanisms linking obesity and its metabolic comorbidities with cerebral grey and white matter changes. *Reviews in Endocrine and Metabolic Disorders*. 2022.
15. **Morys F\***, Poessel M\*, Breuer N\*, Villringer A, Hummel T, Horstmann A: Brain response to food odors is not associated with body mass index and obesity-related metabolic health measures. *Appetite*. 2022.
16. Yang Y, **Morys F**, Wu Q, Li J, Chen H. Pilot study of food-specific go/no-go training for overweight individuals: brain imaging data suggest inhibition shapes food evaluation. *Social Cognitive and Affective Neuroscience*. 2021.
17. Yang Y, Wu Q, **Morys F**. Brain Responses to High-Calorie Visual Food Cues in Individuals with Normal-Weight or Obesity: An Activation Likelihood Estimation Meta-Analysis. *Brain Sciences*. 2021.
18. Beyer F, Horn K, Frenzel S, Hofer E, Knol MJ, **Morys F**, Vainik U, Auwera S Van der, Wittfeld K, Saba Y, et al.: Investigating the genetic and environmental basis of head micromovements during MRI. *bioRxiv*. 2021.
19. **Morys F\***, García-García I\*, Neseliler S\*, Dadar M, Yau Y, Scala S et al. Relationship between impulsivity, uncontrolled eating and body mass index: a hierarchical model. *International Journal of Obesity*. 2021.
20. **Morys F**, Dadar M, Dagher A. Association between mid-life obesity, its metabolic consequences, cerebrovascular disease and cognitive decline. *Journal of Clinical Endocrinology and Metabolism*. 2021.
21. Tremblay C, Rahayel S, Vo A, **Morys F**. et al. Brain atrophy progression in Parkinson's disease is shaped by connectivity and local vulnerability. *Brain Communications*. 2021.
22. **Morys F**, Dagher A. Metabolic syndrome increases COVID-19-related mortality in the UK Biobank sample. *Frontiers in Endocrinology*. 2021.
23. Park B, Park H, **Morys F**, Kim M, Byeon K, Lee H et al. Body mass variations relate to fractionated functional brain hierarchies. *Communications Biology*. 2020
24. **Morys F**, García-García I, Dagher A. Is obesity related to enhanced neural reactivity to visual food cues? A review and meta-analysis. *Social Cognitive and Affective Neuroscience* 2020.
25. García-García I, **Morys F**, Michaud A, Dagher A. Food addiction, skating on thin ice. A critical overview of neuroimaging findings. *Current Addiction Reports*. 2020.
26. Park B, Byeon K, Lee MJ, Chung CS, Kim SH, **Morys F** et al. Whole-brain functional connectivity correlates of obesity phenotypes. *Human Brain Mapping*. 2020.
27. **Morys F**, Simmank J, Horstmann A. DRD2/ANKK1 Taq1A but not COMT single nucleotide polymorphisms contribute to the link between temporal impulsivity and obesity in men. *bioRxiv*. 2020.
28. **Morys F\***, García-García I\*, Dagher A. Nucleus accumbens volume is related to obesity measures in an age-dependent fashion. *Journal of Neuroendocrinology*. 2019.
29. **Morys F**, Janssen LK, Cesnaite E, Beyer F, Garcia-Garcia I, Kube J et al. 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*. 2019.
30. **Morys F\***, Mehl N\*, Villringer A, Horstmann A. Unhealthy yet avoidable — how cognitive bias modification alters behavioral and brain responses. *Nutrients*. 2019.
31. Oliva R, **Morys F**, Horstmann A, Castiello U, Begliomini C. The impulsive brain: Neural underpinnings of binge eating behavior in normal-weight adults. *Appetite*. 2019.

32. García-García I, Kube J, **Morys F**, Schrimpf A, Kanaan ASAS, Gaebler M et al. Liking and left amygdala activity during food versus nonfood processing are modulated by emotional context. *Cognitive Affective and Behavioral Neuroscience*. 2019.
33. Oliva R, **Morys F**, Horstmann A, Castiello U, Begliomini C. Characterizing impulsivity and resting-state functional connectivity in normal-weight binge eaters. *International Journal of Eating Disorders*. 2019.
34. **Morys F\***, Lammert M\*, Hartmann H, Janssen LK, Horstmann A. MIS – A new scoring method for the operation span task that accounts for Math, remembered Items and Sequence. *PsyArXiv*. 2019.
35. **Morys F**, Bode S, Horstmann A. Dorsolateral and medial prefrontal cortex mediate the influence of incidental priming on economic decision making in obesity. *Scientific Reports*. 2018.

\* Shared first authorship

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## Oral presentations

1. Quillian J., Attuquayfio T., Sung J., Ko T., Davis X., Maciejewski K., Li F., Santoro N., Kullman S., Preissl H., **Morys F.**, Canna A., Dagher A., Caprio A., Small D. No association between peripheral glucose control and central insulin sensitivity or cognition in youth with overweight/obesity. Talk presented at the Annual Meeting of the Society for the Study of Ingestive Behavior, Chicago, Illinois, USA. 09-07-2024 – 13-07-2024.
2. **Morys F.**, Liu L., Senkevich K., Tremblay C., Rahayel S., Gan-Or Z., Dagher A. (2023). Influence of obesity and MAPT/ApoE genotypes on brain structure and cognition. Talk presented at the Annual Meeting of the Society for the Study of Ingestive Behavior, Portland, Oregon, USA. 11-07-2023 – 15-07-2023.
3. **Morys F.**, Shishikura M., Tremblay C., Hansen J., Misic B., Dagher A. (2022). Neuromolecular underpinnings of human obesity. Talk presented at the Annual Meeting of the Society for the Study of Ingestive Behavior, Porto, Portugal. 12-07-2022 – 17-07-2022.
4. Yu, J., **Morys, F.**, Dagher, A., Kaminska, M. (2021). Associations between sleep -disordered breathing, brain structure and cognitive decline in obesity. Talk presented at the Quebec Respiratory Health Research Network Meeting (virtual). 10-11-2021 – 11-11-2021.
5. **Morys, F.**, Yu, E., Shishikura, M., Vainik, U., Gan-Or, Z., Dagher A. (2021). Cortical thickness, volume, and white matter's fractional anisotropy confer genetic risk for obesity in adolescence. Talk presented at the Annual Meeting of the Society for the Study of Ingestive Behavior (virtual). 12-07-2021 – 16-07-2021.
6. Tremblay C., Rahayel S., Vo A., **Morys F.**, Shafiei G., Markello R.D., Misic B., Dagher A. (2021). Virtual histology of brain atrophy progression in de novo Parkinson's disease. Talk presented at the 15th International Conference on Alzheimer's & Parkinson's Diseases, Virtual Conference.
7. Tremblay C., Rahayel S., Vo A., **Morys F.**, Shafiei G., Markello R., Misic B., Gan-Or Z., Dagher A. (2021). Progression of brain atrophy in Parkinson's disease is shaped by connectome architecture and local vulnerability. Talk presented at the International Congress of Parkinson's Disease and Movement Disorders Virtual Conference (Top abstract).
8. **Morys, F.**, Dadar, M., Dagher, A. (2020). Obesity impairs cognitive function via metabolic syndrome and cerebrovascular disease: an SEM analysis in 15,000 adults from the UK Biobank. Talk presented at a virtual conference: Brain Plasticity - Influences of Lifestyle and Aging, organized by the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany. 12-10-2020 – 13-10-2020.
9. **Morys, F.**, Dagher, A. (2020). The relationship between BMI and volume of subcortical structures is age-dependent. Talk presented at the 2020 Organization for Human Brain Mapping Annual Meeting (virtual). 26-06-2020 - 2020-06-30.
10. **Morys, F.** (2020). Influence of metabolic syndrome on brain and cognition. Talk presented at the Modern Diet and Physiology Research Center, Yale University. 19-05-2020.
11. Horstmann, A., Mehl, N., **Morys, F.**, & Villringer, A. (2018). Cognitive bias modification alters behavioral and brain responses to food cues in obesity. Talk presented at 51. Congress of the German Psychological Society. Frankfurt a.M., Germany. 2018-09-15 – 2018-09-20.
12. Mehl, N., **Morys, F.**, Villringer, A., & Horstmann, A. (2018). Veränderung automatischer Verhaltenstendenzen bei Adipositas – Was passiert im Gehirn? Talk presented at the 6<sup>th</sup> Scientific Congress of the German Society for Eating Disorders. Munich, Germany. 2018-03-01 - 2018-03-03.

13. **Morys, F.**, & Horstmann, A. (2017). Dorsolateral and medial prefrontal cortex mediate influence of incidental priming on economic decisions in obesity. Talk presented at 25th Annual Meeting of the Society for the Study of Ingestive Behavior; Montréal, QC, Canada. 2017-07-18 — 2017-07-22.
  14. Mehl, N., **Morys, F.**, Villringer, A., Horstmann, A. (2017). 'Neural correlates of retraining automatic action tendencies in obesity'. Talk presented at 25th Annual Meeting of the Society for the Study of Ingestive Behavior; Montréal, QC, Canada. 2017-07-18 — 2017-07-22.
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## Poster presentations

1. **Morys F.**, Tweedale M., Pastor-Bernier A., Azizi H., Tremblay C., Dagher A. (2024). Relationship between obesity, related comorbidities, and subcortical neuroinflammation in young and older adults. Poster presented at the Organization for Human Brain Mapping (OHBM) Annual Meeting. Seoul, South Korea.
2. Tremblay C., Rahayel S., Pastor-Bernier A., St-Onge F., Vo A., Rheault F., Daneault V., **Morys F.**, Rajah N., Villeneuve S., Dagher A. (2024). Atrophy Progression in People With a Family History of Alzheimer's disease is Shaped by Connectivity. Poster presented at the Organization for Human Brain Mapping (OHBM) Annual Meeting. Seoul, South Korea.
3. **Morys F.**, Liu L., Senkevich K., Tremblay C., Rahayel S., Gan-Or Z., Dagher A. (2023). Influence of obesity and MAPT/ApoE genotypes on brain structure and cognition. Poster presented at the Organization for Human Brain Mapping (OHBM) Annual Meeting. Montreal, Canada.
4. Shishikura M., **Morys F.**, Dagher A. (2023). Link between brain structure and genetic predisposition for risky and impulsive behavior in children. Poster presented at the Organization for Human Brain Mapping (OHBM) Annual Meeting. Montreal, Canada.
5. Pastor-Bernier A., Savadjiev P., Poline JB., St-Onge E., Zhang F., O'Donnell LJ., Pasternak O., Gan-Or Z., **Morys F.**, Dagher A. (2023) Influence of body mass index on white matter structure. Poster presented at the Organization for Human Brain Mapping (OHBM) Annual Meeting. Montreal, Canada.
6. **Morys F.**, Shishikura M., Tremblay C., Hansen J., Misić B., Dagher A. (2022). Neuromolecular underpinnings of human obesity. Poster presented at the Organization for Human Brain Mapping (OHBM) Annual Meeting. Glasgow, UK
7. Shishikura, M., **Morys, F.**, Yu, E., Dagher, A. (2022). Differentiating subgroups in overweight and obese children using data-driven clustering approach with brain imaging data. Poster presented at the Annual Meeting of the Society for the Study of Ingestive Behavior, Porto, Portugal.
8. Kaminska, M., Yu, J., **Morys, F.**, Ock, E., Lajoie, A., Dagher, A. (2022). Associations between hypersomnolence, obesity, brain health and cognitive decline. Poster presented at the American Thoracic Society meeting.
9. Kouchache, T., Khundrakpam B. S., Vainik, U., Tremblay, C., Kirschner, M., **Morys, F.**, Vo, A., Dagher, A. (2022) Brain regions associated with differences in polygenic risks scores for smoking in typical development. Poster presented at the Organization for Human Brain Mapping (OHBM) Annual Meeting. Glasgow, UK.
10. Kouchache, T., Khundrakpam B. S., Vainik, U., Tremblay, C., Kirschner, M., **Morys, F.**, Vo, A., Dagher, A. (2022) Brain regions associated with differences in polygenic risks scores for smoking in typical development. Poster presented at the Cognitive Neuroscience Society Annual Meeting. San Francisco, US.
11. Hartmann, H., Janssen, L., Herzog, N., **Morys, F.**, Fallon, S., Horstmann, A. (2021). Associations of dietary fat and sugar and bodyweight with dopamine dependent stability and flexibility of working memory representations. Poster presented at the Annual Meeting of the Society for the Study of Ingestive Behavior (virtual).
12. **Morys F.**, Yu E., Shishikura M., Gan-Or Z., Dagher A. (2021). Obesity genetic risk is related to weight gain via structural changes in the frontoparietal network. Poster presented at the 2021 Organization for Human Brain Mapping Annual Meeting (virtual).
13. Tremblay C., Rahayel S., Vo A., **Morys F.**, Shafiei G., Markello R.D., Misić B., Gan-Or Z., Dagher A. (2021). Atrophy Progression in Parkinson's Disease is Associated with Connectivity and Synaptic Activity. Poster presented at the 2021 Organization for Human Brain Mapping Annual Meeting (virtual).
14. Tremblay C., Rahayel S., Vo A., **Morys F.**, Shafiei G., Markello R.D., Dagher A. (2020). Connectome architecture influences brain atrophy progression in de novo Parkinson's disease. Poster presented at the Grand Challenges in Parkinson's Disease Virtual Conference.
15. **Morys, F.**, Dagher A. (2020). The relationship between BMI and volume of subcortical structures is age-dependent. Poster presented at the 2020 Organization for Human Brain Mapping Annual Meeting (virtual).

16. **Morys, F.**, Dadar M., Dagher A. (2020). Obesity impairs cognitive function via metabolic syndrome and cerebrovascular disease: an SEM analysis in 15,000 adults from the UK Biobank. Poster presented at a virtual conference: Brain Plasticity - Influences of Lifestyle and Aging, organized by the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
17. Yau, Y., **Morys, F.**, Dagher, A. (2020). The Dynamics of Brain Connectivity at Rest Underpins Performance in Task. Poster presented at the 2020 Winter Conference on Brain Research, Big Sky, Montana, USA.
18. **Morys, F.**, Janssen, L., Cesnaite, E., Garcia-Garcia, I., Kube, J., Schrimpf, A., et al. (2018). Hemispheric bias in resting state EEG and fMRI is related to approach/avoidance behaviors, but not BMI. Poster presented at 2018 Organization for Human Brain Mapping Annual Meeting; Singapore.
19. **Morys, F.**, & Horstmann, A. (2017). Dorsolateral and medial prefrontal cortex mediate influence of incidental priming on economic decisions in obesity. Poster presented at 33rd Annual Conference of the German Association for the Study of Obesity; Potsdam, Germany.
20. **Morys, F.**, Mehl, N., Horstmann, A., & Villringer, A. (2017). Neural correlates of cognitive bias modification in obesity. Poster presented at 33rd Annual Conference of the German Association for the Study of Obesity; Potsdam, Germany.
21. **Morys, F.**, Simmank, J., & Horstmann, A. (2016). BMI mediates the relationship between temporal impulsivity and cognitive restraint in women. Poster presented at 32nd Annual Conference of the German Association for the Study of Obesity; Frankfurt, Germany.
22. **Morys, F.**, Simmank, J., & Horstmann, A. (2016). BMI mediates the relationship between temporal impulsivity and cognitive restraint in women. Poster presented at 24th Annual Meeting of the Society for the Study of Ingestive Behaviour; Porto, Portugal.
23. **Morys, F.**, Bode, S., Murawski, C., & Horstmann, A. (2015). Influence of incidental priming with visual and gustatory cues on intertemporal choice in obesity. Poster presented at LIMIOR — 1st Leipzig International Meeting for Interdisciplinary Obesity Research; Leipzig, Germany.

## Book chapters

1. Dagher A., **Morys F.**, Garcia-Garcia I. Body Brain Interactions in the Control of Feeding. In JH. Grafman (Ed.) Encyclopedia of the Human Brain (2nd ed., pp. 440-451). Elsevier. 2024.

## Symposia/Roundtables/Workshops

1. *Maximize your Research on Obesity and Diabetes platform launch event*. Acted as a mentor. 2024, Toronto, Canada
2. *Re-envisioning the future of academic training*. Organisers: Carolina Makowski, **Filip Morys**, Phoebe Thomson, Anne Bilot. Organization for Human Brain Mapping Annual Meeting 2022, Glasgow, United Kingdom.
3. *Becoming a Leading Investigator in Human Neuroscience*. Organisers/Chairs: Anne Bilot, **Filip Morys**. Organization for Human Brain Mapping Annual Meeting 2022, Glasgow, United Kingdom
4. *Lunch with mentors*. Organisers: OHBM SP-SIG. Organization for Human Brain Mapping Annual Meeting 2022, Glasgow, United Kingdom
5. *Link with mentors*. Online event. Organization for Human Brain Mapping Annual Meeting 2021.

## Ad-hoc reviewer

1. Imaging Neuroscience
2. Appetite
3. Journal of Alzheimer's Disease
4. Aging and Disease
5. The Lancet Regional Health – Western Pacific
6. International Journal of Obesity
7. Brain Imaging and Behavior



8. Pediatric Obesity
  9. Human Brain Mapping
  10. Plos One
  11. Neuroimage
  12. Neurobiology of Aging
  13. Psychosomatic Medicine
  14. Scientific Reports
  15. Obesity
  16. Obesity Reviews
  17. Biological Psychology
  18. Neuroscience and Biobehavioral Reviews
  19. Wiley Interdisciplinary Reviews: Cognitive Science
  20. Cerebral Cortex
  21. Neurobiology of Stress
  22. International Journal of Environmental Research and Public Health
  23. eBioMedicine
  24. Physiology and Behavior
  25. NPJ Aging
  26. NPJ Parkinson's disease
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## Technical skills

### Programming languages

- MATLAB, R, Python, SQL, Bash

### Neuroimaging tools

- FSL, SPM, Nilearn, Nipype, Nibabel, AFNI, Tractoflow, fMRIPrep, FreeSurfer, CAT

### Chosen statistical tools

- General linear model, generalized linear model, machine learning: LASSO regression, partial least squares analysis, principal component analysis, independent component analysis