Type of Fellowship: **Cognitive Neurology & Neuropsychiatry Fellowship**

**Director:** Dr Lesley Fellows and Dr. Simon Ducharme

**Name of the Fellowship Supervisors:** Dr. Étienne de Villers-Sidani, Dr. Simon Ducharme, Dr. Lesley Fellows, Dr. Serge Gauthier, Dr. Theodore Kolivakis, Dr. Pedro Rosa-Neto, Dr. Chenjie Xia

**Fellowship Information:**

- **Number of fellowship positions requested:** 1 or 2

- **Name of hospitals involved in training:** MNH, JGH, McGill Centre for Studies in Aging (MCSA)

- **Description of Fellowship:** This is a one or two-year fellowship combining research training in cognitive neuroscience and/or clinical research relevant to disorders of cognition with clinical training in cognitive-behavioural neurology and neuropsychiatry.
  
  - Under the supervision of the attending neurologists and neuropsychiatrists, the fellow will attend cognitive-behavioural neurology and neuropsychiatry clinics between one and three days/week (depending on the intensity of research activities). The fellow will be responsible for evaluating and treating patients with disorders of cognition or behaviour. Fellows will attend clinics at the MNH, JGH and MCSA on a rotating basis depending on their clinical interests and the requirements of their research projects.
  
  - The research component will be carried out in the laboratory of one or more of the fellowship supervisors. 2-year fellowship require that at least 50% of the time be spent on research.

- **Mission statement for fellowship:**
  
  - To provide scientifically based, comprehensive and effective diagnosis and management for patients with neurocognitive disorders and pathologies at the boundary of neurology and psychiatry.
  
  - To provide training in clinical or basic science research methodology required for furthering the understanding of human cognition and disorders thereof.

- **Source of funding for fellowship:** The Fellowship is conditional upon successfully securing peer-reviewed Fellowship award funding by or for the candidate. The supervisor/department may
supplement these awards depending on specific circumstances. International candidates with appropriate external funding from a sponsoring organization are also eligible.

- **Duration of Fellowship:** one or two years

**Names of the Teaching Faculty**

- **Étienne de Villers-Sidani**
  - **Roles:** Co-supervisor, Clinical and Research
  - **Summary of clinical practice:** Attending neurologist, Montreal Neurological Hospital; Research Scientist, Cognitive Neuroscience Group, Montreal Neurological Institute
  - **Major Strengths:** Clinician-scientist trained in Cognitive Neurology; Research expertise in neuroplasticity and cognitive rehabilitation.

- **Simon Ducharme**
  - **Roles:** Co-director, Clinical and Research
  - **Summary of clinical practice:** Neuropsychiatrist, Montreal Neurological Hospital; C-L Psychiatrist, McGill University Health Centre; Clinical-Research Scientist, McConnell Brain Imaging Centre, Montreal Neurological Institute.
  - **Major Strengths:** UCNS certification in Behavioral Neurology & Neuropsychiatry with a specific expertise in frontotemporal dementia; Research expertise in advanced structural brain imaging across the developmental spectrum.

- **Lesley Fellows**
  - **Roles:** Co-director, Research and Clinical
  - **Summary of clinical practice:** Attending neurologist, Montreal Neurological Hospital & MUHC; Research Scientist; Lead, Cognitive Neuroscience Group, Montreal Neurological Institute.
  - **Major Strengths:** MD-PhD Clinician-Scientist trained with sub-specialty training in Cognitive-Behavioral Neurology; interests in cognitive neuroscience and clinical research on mild cognitive impairment in medical conditions; past Director of McGill MD-PhD program; past research director Neurology Residency Training Program; manages the McGill Cognitive Neuroscience Registry.

- **Serge Gauthier**
  - **Roles:** Co-supervisor, Research and Clinical
  - **Summary of clinical practice:** Attending neurologist and senior scientist at the McGill Centre for Studies in Aging.
  - **Major Strengths:** Extensive experience in clinical trial research in cognitive disorders, interest in the management and ethical issues related to dementia.

- **Theodore Kolivakis**
  - **Roles:** Co-supervisor, Clinical
  - **Summary of clinical practice:** Neuropsychiatrist, Montreal Neurological Hospital; Psychiatrist, McGill University Health Centre.
  - **Major Strengths:** Expertise in psychopharmacology, neuropsychiatric aspects of movement disorders, and neuromodulation (rTMS, DBS, VNS).

- **Pedro Rosa-Neto**
  - **Roles:** Co-supervisor, Research and Clinical
- Summary of clinical practice: Attending neurologist and scientist at the McGill Centre for Studies in Aging.
- Major Strengths: Director of the laboratory for translational and integrative neuroimaging, expertise in the development of PET-tracers for cognitive disorders, McGill Centre for Studies in Aging.

**Madeleine Sharp**
- Roles: Co-supervisor, Clinical and Research
- Summary of clinical practice: Attending neurologist at the MNI, movement disorders and related cognitive deficits
- Major Strengths: Expertise in movement disorders, Cognitive neuroscience research

**Chenjie Xia**
- Roles: Co-supervisor, Clinical and Research
- Summary of clinical practice: Attending neurologist, Jewish General Hospital;
- Major Strengths: Clinician-scientist trained in Cognitive Neurology; Research expertise in neurophysiology, interest for autonomic disturbances in dementia.

**Academic Facilities**

- Facilities for Clinical Activities:
  - The fellow will have access to the twice-weekly memory clinic at the Jewish General Hospital
  - (S)he will have access to Dr. Fellows and Dr. de Villers-Sidani’s Cognitive Neurology clinic one half-day per week at the Montreal Neurological Hospital
  - (S)he will have access to Dr. Xia’s Cognitive Neurology clinic one half-day per week at the Jewish General Hospital
  - (S)he will have access to Dr. Ducharme’s Neuropsychiatry and FTD clinic one day per week at the Montreal Neurological Hospital and one half-day per month at the MCSA
  - (S)he will have access to Dr. Kolivakis’s Movement Disorders Neuropsychiatry clinic one half-day twice per week at the Montreal Neurological Hospital
  - (S)he will have access to Dr. Gauthier and Dr. Rosa-Neto’s Cognitive Neurology clinic one day per week at the MCSA
  - (S)he may also choose to attend other relevant clinics, such as:
    - Other neuropsychiatry clinics at the Montreal Neurological Hospital staffed by Dr. Michaela Barbarosie, Dr. Simon Ducharme and Dr. Theo Kolivakis;
    - The Montreal General Hospital traumatic brain injury clinic;
    - The pain clinics at the Montreal Neurological Hospital and Montreal General Hospital;
    - The Movement Disorders clinic at the Montreal Neurological Hospital.
The fellow will provide occasional consultation services to inpatients with cognitive complaints at the Montreal Neurological Hospital, and at other McGill hospitals, as relevant to his/her specific clinical focus.

- Research Activities:
  - Will be carried out and supervised in the lab of one or more of the fellowship co-supervisors. However, the fellow will have access to collaborative research activities with other research faculties at any of the sites. The specific research project(s) will be worked out in collaboration with the supervisor.

- Library access, materials relevant to fellowship training: Readily obtainable through McGill
- Multimedia learning materials available: Yes
- Availability of a skills lab if applicable: N/A

Fellow Duties and Responsibilities

- Call responsibilities to cover service: fellows will not take call
- Will the fellow be supervising residents: There will be the option of supervising residents in the various clinics if the fellow is interested in developing teaching skills
- Are there fixed rotations at various institutions: No
- What are the outpatient clinic responsibilities: Evaluate patients (history and examination), establish a treatment plan along with other members of multidisciplinary team (neuropsychologist, CNS, OT, PT, speech therapist).
- What are the teaching responsibilities towards residents: The fellow will participate in informal teaching during clinics and in formal teaching of neurology, psychiatry and other McGill residents as called upon.
- Outline participation in academic activities involving the residents: The fellow will be available to provide occasional lectures to the neurology and psychiatry residents as called upon.
- Describe any support staff available to the fellow: N/A
- Proposed meetings to be attended by the fellow could include: American Neuropsychiatric Association; Canadian Neurosciences Federation; Cognitive Neuroscience Society; American Academy of Neurology; Society for Neuroscience; Scientific Meeting of Canadian Association of Gerontology; Scientific Meeting of the Gerontological Society of America
- What is the research productivity/publications expected by the fellow: The goal is to present the research findings at an international or national conference, and to publish at least one paper per year based around the research component of the fellowship chosen by the fellow. Review papers will also be undertaken, if relevant to their topic of interest.
Curriculum

- What is the intended caseload for the fellow: Clinic 1-3 days/week depending on the clinical/research balance most suitable for the fellow: 2-3 new patients, 4 follow-ups per clinic day. 1-2 inpatient consultations per week.

- What are the intended percentages of the varieties of cases: Dependent upon the specific clinics attended by the fellow. Most clinics are at tertiary or quaternary referral centres, providing exposure to common and rare cognitive and neuropsychiatric presentations.

- What regular reading materials are to be provided: The fellow is expected to stay abreast of basic science and clinical developments in his/her field by reading leading high-impact journals (Neurology, Lancet Neurology, Brain, Nature Neuroscience, etc...). A list of landmark articles in Behavioral Neurology & Neuropsychiatry will be provided for guided readings. The fellow is also expected to read cognitive neuroscience, behavioural neurology, and neuropsychiatry textbooks.

- Outline the weekly conference schedule: Tuesday: JGH service rounds; Wednesday: Neurology Grand Rounds; Thursday: MNI service rounds; Friday: MUHC Psychiatry Grand Rounds, Quarterly McGill Cognitive Neurology Rounds, lab meetings of research supervisors. Cognitive Neuroscience Seminar series (Wednesday PM) is also an option.

- What role will the fellow play in attending, organizing, and presenting rounds/conferences: The fellow will be expected to occasionally present at service rounds of the Neurology or Psychiatry departments, and contribute to the development of regular McGill Cognitive-Behavioral Neurology & Neuropsychiatry rounds.

- Evaluation and feedback: fellows will be evaluated at regular (i.e., quarterly) intervals on their performance at both the clinical and research levels. Satisfactory performance will be required to continue the second year for the fellowship.
  
  o Clinical evaluations and feedback will be provided by the attending physicians involved, both informally during the clinic and formally at 3 month intervals. Formal evaluations include one-on-one verbal sessions and written evaluations based upon standardized CanMEDS criteria adapted to the fellowship-specific goals and objectives.

  o Research evaluations and feedback will be provided by the research supervisor(s) in the form of 1 hour one-on-one sessions at least once per month at which time the fellow will present his/her research progress and results, as well as discuss problems and future directions.