

# **Dr. Anthony Lang**

**Director, Movement Disorders Program at University Health Network**

Toronto, ON, CA

Solving the 'Parkinson Puzzle'

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## **Biography**

Our clinical research is conducted in the Morton and Gloria Shulman Movement Disorders Clinic and with important support through the Edmond J. Safra Program in Parkinsons Disease and recently the Lily Safra Chair in Movement Disorders.

We are involved in a large number of clinical research trials including pharmacologic studies evaluating a number of drugs at various stages of Parkinson's disease. Several of these trials are in collaboration with the Parkinson Study Group.

The Toronto Western Hospital Movement Disorders Program remains a world leader in the surgical management of Parkinson's disease. Recent studies include evaluation of deep brain stimulation in novel sites or for new indications.

Collaborators in the surgical arm of the program include Drs. Alfonso Fasano and Renato Munhoz in neurology and Drs. Andres Lozano, Moji Hodaie, Suneil Kalia and Bill Hutchison in neurosurgery.

Neuropsychological and imaging evaluations of patients participating in these studies represent an important component of our collaborative research. Additional neurophysiologic studies in surgical patients as well as in other movement disorders are carried out by Dr. Robert Chen.

Clinical trials are very active in the program. Dr. Susan Fox directs a program in clinical neuropharmacology and early proof of principle studies. Dr. Connie Marras has a PhD in clinical epidemiology and is directing a program in this field as it applies to movement disorders.

Neuroimaging is an important component of our program and in addition to magnetic resonance imaging we are actively developing a positron-emission tomography program. Dr. Antonio Strafella directs a very active functional imaging research program using positron emission tomography and fMRI.

Molecular and cell biology and clinical genetics of movement disorders including Parkinson's disease is an areas of expanding interest in collaboration with Drs. Peter St George-Hyslop, Ekaterina Rogaeva and Lorraine Kalia and we continue active work in the field of neuropathology in collaboration with the division of neuropathology at UHN and Dr. Lili-Naz Hazrati.

Finally, we are actively collaborating with Dr. Jonathan Brotchie's laboratory in the study of animal models of movement disorders, particularly levodopa-induced dyskinesias.

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## **Industry Expertise**

Health and Wellness, Research, Health Care - Services, Health Care - Providers

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## Areas of Expertise

Clinical Trials, Parkinson's Disease, Movement Disorders, Neuropharmacology, Functional Surgery, Neurology

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## Accomplishments

### **Dr. Anthony E. Lang recognized with 2007 Donald Calne Lectureship**

The lectureship is awarded each year to a distinguished neuroscientist of international reputation, whose work is primarily in the area of Parkinson's disease. The recipient delivers an annual "state of the illness" lecture to the Parkinson community. This year's lecture will be given on Friday, January 18, 2008 in Ottawa, in conjunction with the Parkinson's Disease Research Alliance Meeting.

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