

Codrin Ion Lungu, MD

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updated on 01/20/2012

CURRICULUM VITAE

CURRENT POSITION:

Chief, National Institutes of Health Parkinson Clinic, NIH
Assistant Clinical Director, NINDS
Staff Clinician, NINDS, NIH
Clinic Director, Botulinum Toxin Clinic, NINDS, NIH
Consultant, Parkinson's Disease and Movement Disorders Center of Maryland, Elkridge, MD

PROFESSIONAL CERTIFICATION:

Diplomate of the American Board of Psychiatry and Neurology (2008)

State Medical License: MD: active; NY, MA: inactive

Active Federal and State DEA Registration, NPI number, Medicare Provider Registration

PREVIOUS POSITIONS AND GRADUATE MEDICAL EDUCATION:

07/2010 – 02/2011: Instructor, Medical Neurology, NINDS, NIH
Acting Director, National Institutes of Health Parkinson Clinic, NIH

07/2008 – 06/2010: Clinical Fellow, Human Motor Control Section, NINDS, NIH

07/2008 – present: Clinic Director, Botulinum Toxin Clinic, NINDS, NIH

10/2008 – 12/2010: Staff, Parkinson's Disease and Movement Disorders Center of Maryland, Elkridge, MD

07/2007 – 06/2008: Movement Disorders Fellow, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA

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PREVIOUS POSITIONS AND GRADUATE MEDICAL EDUCATION (continued):

07/2007 – 06/2008: Staff, Department of Neurology, Beth Israel Deaconess Medical Center, Boston, MA

12/2007 – 06/2008: Staff, Department of Neurology, Beth Israel Deaconess Needham Medical Center, Needham, MA

07/2004 – 06/2007: Resident, Neurology Residency Program, Albert Einstein College of Medicine at North Shore Long Island Jewish Health System, New Hyde Park, NY

07/2003 – 06/2004: Resident PGY1, Internal Medicine Preliminary Track Residency Program, Nassau University Medical Center - State University of New York at Stony Brook, East Meadow, NY

08/2001 – 06/2003: Graduate Student, Neuroscience Graduate Program, University of Rochester, Rochester, NY

07/2000 – 12/2000: Intern in Medicine and Surgery, Emergency Hospital, Iasi, Romania

08/2000 – 09/2000: Clinical Attachment, Department of Gastroenterology, Dudley Group of Hospitals, Dudley, UK

MEDICAL EDUCATION:

MD, 09/1999 Gr. T. Popa University of Medicine and Pharmacy, Iasi, Romania; GPA 9.69/10

PUBLICATIONS

1. PEER-REVIEWED ARTICLES:

- Short and valid assessment of apraxia in Parkinson's disease. Vanbellingen T, **Lungu C**, Lopez G, Baronti F, Muri R, Hallett M, Bohlhalter S. *Parkinsonism Relat Disord* 2011 Dec 16. [Epub ahead of print]
- Long term follow-up of botulinum toxin therapy for focal hand dystonia: outcome at 10 years or more. **Lungu C**, Karp BI, Alter K, Zolbrod R, Hallett M. *Movement Disorders* 2011; 26(4):750-3
- Quantifying Muscle Asymmetries in Cervical Dystonia with Electrical Impedance: A Preliminary Assessment. **Lungu C**, Tarulli AW, Tarsy D, Mongiovi P, Vanderhorst VG, Rutkove SB. *Clinical Neurophysiology* 2010; 122(5):1027-31

PUBLICATIONS

1. PEER-REVIEWED
ARTICLES (continued):

- The utility of diagnostic tests in acute ischemic stroke patients. Yu EH, **Lungu C**, Kanner R, Libman R. *Journal of Stroke and Cerebrovascular Diseases* 2009; 18(3):178-84
- Tardive dyskinesia due to aripiprazole: report of two cases. **Lungu C**, Aia PG, Shih LC, Esper CD, Factor SA, Tarsy D. *Journal of Clinical Psychopharmacology* 2009; 29(1):1-4
- Multiple ischemic strokes associated with use of recombinant activated factor VII. Libman RB, **Lungu C**, Kwiatkowski T. *Archives of Neurology* 2007; 64(6):879-81
- Chloride channelopathy in myotonic dystrophy resulting from loss of post-transcriptional regulation for CLCN1. Lueck JD, **Lungu C**, Mankodi A, Osborne RJ, Welle SL, Dirksen RT, Thornton CA (first 2 authors with equal contribution). *American Journal of Physiology Cell Physiology* 2007; 292(4):C1291-7
- Heritability, correlations and in silico mapping of locomotor behavior and neurochemistry in inbred strains of mice. Mhyre TR, Chesler EJ, Thiruchelvam M, **Lungu C**, Cory-Slechta DA, Fry JD, Richfield EK. *Genes Brain Behavior* 2005; 4(4):209-28
- A muscleblind knockout model for myotonic dystrophy. Kanadia RN, Johnstone KA, Mankodi A, **Lungu C**, Thornton CA, Esson D, Timmers AM, Hauswirth WW, Swanson MS. *Science* 2003; 302(5652):1978-80

2. BOOK CHAPTERS:

- Other Jerks and Startles. **Lungu C**, Hallett M. In: Albanese A, Jankovic J (eds). *Hyperkinetic Movement Disorders. Differential Diagnosis and Treatment*, Blackwell, Oxford, 2012 (in press)
- Epidemiology of tardive dyskinesia before and during the era of modern antipsychotic drugs. Tarsy D, **Lungu C**, Baldessarini R. In: Weiner W, Tolosa E (eds). *Hyperkinetic Movement Disorders. Handb Clin Neurol.* 2011;100:601-16

3. PEER-REVIEWED
POSTERS AND OTHER
WORK (recent, selected):

- Advances in Toxin Therapy: Utilizing Ultrasound Guidance for Botulinum Toxin Injections. Alter, KE, Hallett M, Karp B, **Lungu C**. *7th International Conference on Basic and Therapeutic Aspects of Botulinum and Tetanus Toxins*. 10/2011
- Pilot Study of Topical Acetyl Hexapeptide-8 (AH8) in Treatment of Blepharospasm. **Lungu C**, Considine E, Zahir S, Hallett M. *The Movement Disorders Society 15th International Congress*. 06/2011
- Short assessment of apraxia in patients with Parkinson's disease: the validity of the Apraxia Screen of TULIA (AST). Vanbelingen T, Kersten B, Lopez G, **Lungu C**, Baronti F, Muri R, Hallett M, Bohlhalter S. *The Movement Disorders Society 15th International Congress*. 06/2011
- Safety and efficacy of octanoic acid in the treatment of essential tremor. Haubenberger D, McCrossin G, Auh S, **Lungu C**, Scheider L, Nahab F, Considine E, Hallett M. *The Movement Disorders Society 15th International Congress*. 06/2011
- Long term follow-up of botulinum toxin therapy for focal hand dystonia: outcome at 10 years or more. **Lungu C**. Exclusive author commentary. <http://www.mdlinx.com/neurology/news-article.cfm/3473064/dystonia>
- Development of a New Objective Metric Method for Parkinsonian Rigidity. Ghosh P, Scheider L, Auh S, Dang N, Hallett M, **Lungu C**. *The American Academy of Neurology 63rd Annual Meeting*. 04/2011
- Objective Measures of Parkinsonian Rigidity: Design and Optimization of an Instrumented Assessment. Scheider L, Zolbrod R, Dang N, **Lungu C**, Hallett M. *NIH Summer Poster Day* 08/2010
- Retrospective Analysis of Efficacy and Side Effects of Long Term Botulinum Toxin Therapy: Demographic Characteristics and Predictors of Efficacy. Zolbrod R, **Lungu C**, Considine E, Hallett M. *NIH Summer Poster Day* 08/2010
- Botulinum Toxin (BoNT) Therapy for Focal Hand Dystonia (FHD)-10 Years or Longer Follow-Up. **Lungu C**, Karp BI, Alter K, Considine E, Hallett M. *The Movement Disorders Society 14th International Congress*. 06/2010
- Quantification of Cervical Dystonia and Response to Botulinum Toxin Using Electrical Impedance Myography. **Lungu C**, Tarulli A, Tarsy D, Mongiovi P, Vanderhorst V, Rutkove S. *The American Academy of Neurology 62nd Annual Meeting*. 04/2010

PUBLICATIONS

3. PEER-REVIEWED
POSTERS AND OTHER
WORK (continued):

- Acetyl Hexapeptide-8 for Treatment of Blepharospasm. **Lungu C.** *The American Society for Experimental NeuroTherapeutics Annual Meeting.* 03/2010
- Parkinson's Disease – Genes and Environment – the Clinical Aspects. **Lungu C.** *National Institute of Neurological Disorders and Stroke Grand Rounds.* 02/2010
- Correlation between Clinical Rating and Computerized Analysis of Essential Tremor Spirography. Kalowitz D, Haubenberger D, Toro C, **Lungu C**, Nahab F, Hallett M. *NIH Summer Poster Day.* 08/2009
- High-dose 1-octanol in Essential Tremor: Further Evidence for Mechanism of Action Mediated through Octanoic Acid. Haubenberger D, Nahab F, Toro C, Wittevrongel L, **Lungu C**, McLane JA, Hallett M. *The Movement Disorders Society 13th International Congress.* 06/2009
- Therapeutic Effect of 1-Octanol in Essential Tremor Likely Mediated through Octanoic Acid: Data from a High-Dose Extension Study. Haubenberger D, Nahab F, Toro C, Wittevrongel L, **Lungu C**, McLane JA, Hallett M. *American Society of Experimental Neurotherapeutics 11th Annual Meeting.* 03/2009
- Tardive Dystonia (TD) Due to Aripiprazole: Case Report and Literature Review. **Lungu C**, Shih L, Tarsy D. *The Movement Disorders Society 12th International Congress.* 06/2008
- Electrical Impedance Myography (EIM) for Quantification of Cervical Dystonia (CD). **Lungu C**, Tarulli AW, Garmirian LP, Fogerson P, Tarsy D, Rutkove SB. *The Movement Disorders Society 12th International Congress.* 06/2008

REVIEWER ACTIVITY:

- *European Journal of Neurology*
- *Clinical Neuropharmacology*
- *Brain*
- *Journal of Clinical Psychopharmacology*
- Faculty of 1000 Medicine – faculty member

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HONORS AND AWARDS

(selected):

US Dept of Health and Human Services Special Service Award,
National Institutes of Health, 2010; 2011

Top 3% F1000 Reviews, 2008; 2009; 2011

Chief Resident, Neurology Residency Program, Albert Einstein College of
Medicine at North Shore Long Island Jewish Health System, 2006-2007

**North Shore Long Island Jewish Health System Academic Library
Competition Award for Research,** Albert Einstein College of Medicine at
North Shore Long Island Jewish Health System, 05/2006

Robert L and Mary L Sproull University Fellowship, University of
Rochester, 2001 – 2003

Davies Ascona Award for excellence in research activity, The Medical
Doctors and Naturalist Researchers Society, Iasi, Romania, 04/1999

Medical Students Society Award for Research, Iasi, Romania, 05/1997

Merit Scholarship, Gr. T. Popa University of Medicine and Pharmacy Iasi,
Romania, 1994 – 1999

PROFESSIONAL
MEMBERSHIP:

American Academy of Neurology, 2004 – present

Movement Disorders Society, 2007 – present

American Society for Experimental NeuroTherapeutics, 2010 - present

RELEVANT ADDITIONAL
TRAINING (recent, selected):

Use of Transcranial Ultrasound in Parkinson Disease, NIH, Rostock
University Medical Center, 2011

The DBS Forum (Medtronic, Inc.) training in Deep Brain Stimulation
management, 2011

Clinical Trial Methods Course in Neurology, University of Rochester,
NINDS, 2010

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RELEVANT ADDITIONAL
TRAINING (continued):

The Science of Small Clinical Trials, NIH Office of Rare Diseases, 2010

Introduction to the Principles and Practice of Clinical Research, NIH Clinical Research Training and Medical Education, 2008-2009

Statistics for Biomedical Scientists, FAES Graduate School, NIH, 2008-2009

Activa University (Medtronic, Inc.) training in Deep Brain Stimulation management, 2007

CURRENT RESEARCH
WORK (selected):

Objective measures of Parkinsonian deficits. Principal investigator, NIH intramural – industry collaboration. Active accrual

Multimodal Imaging in Parkinson Disease. Principal investigator, NIH intramural. Active accrual

A study of acetyl hexapeptide-8 (AH8) in treatment of blepharospasm. Principal Investigator, NIH intramural - industry collaboration. Manuscript under review, next phase in preparation

Deep brain stimulation – novel target in treatment of dystonia. Principal Investigator, NIH – industry collaboration. In preparation

A training protocol for the use of botulinum toxin in the treatment of neurological disorders. Principal investigator, NIH intramural. Active accrual.

Phenotype/genotype correlations in movement disorders. Lead associate investigator, NIH intramural. Active accrual

Deep brain stimulation – new targets and physiology studies for gait disorders. Lead associate investigator, NIH intramural - industry collaboration. Active accrual

Electrical Impedance Myography for quantification of Cervical Dystonia. Lead associate investigator, NIH extramural. One phase completed, follow-up studies in preparation

Gene Therapy in Parkinson Disease. Associate investigator, NIH intramural - extramural collaboration. Administrative review

Deep Brain Stimulation in Addiction. Associate investigator, NIH intramural - industry collaboration. In preparation

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CLINICAL EXPERTISE AND
FOCUS AREAS:

Movement Disorders diagnosis and management

Novel therapies in Movement Disorders and neurodegenerative disorders

Deep brain stimulation management, intra-operative physiology, programming and care coordination

Therapeutic neurotoxin injections in dystonia, spasticity, autonomic dysfunction

PERSONAL DATA:

Foreign languages: Romanian, French, Italian, medical Spanish

Outside interests: music, photography, art and art history, outdoor activities

Citizenship: USA; EU (Romania) – dual citizenship