# **CURRICULUM VITAE**

# Rodger J. Elble, MD, PhD July 18, 2017

# **PERSONAL DATA:**

Office Address: Southern Illinois University School of Medicine

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Springfield, IL 62794-9645

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E-mail: relble@siumed.edu

Date of Birth: August 10, 1948

#### **EDUCATION:**

1966 East-Alton-Wood River Community High School

Wood River, Illinois

1966-1971 Co-operative engineering program.

Purdue University and the McDonnell-Douglas Corp.

1971 Purdue University BSAE

W. Lafayette, Indiana

B.S. Aeronautical Engineering

1975 Indiana University PhD

Bloomington, Indiana

Ph.D. Physiology (minor in biochemistry)
Thesis: Contribution of Motor Unit Statistics

to Physiological Tremor

Major Professor: James E. Randall, Ph.D.

1977 Indiana University School of Medicine MD

Indianapolis, Indiana

# **POSTGRADUATE EDUCATION:**

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July 1977 - June 1978 Indiana University School of Medicine, Indianapolis, IN

Internship, Internal Medicine

July 1978 - June 1981 Washington University School of Medicine, Barnes Hospital

Complex, St. Louis, MO.

Neurology residency and postdoctoral neuroscience training with W. T. Thach, MD. Topic: Role of cerebellum and stretch reflex

in action tremor

June 1987 Biomechanics of Human Movement.

Special summer course at Massachusetts Institute of Technology,

Laboratory of Prof. Robert W. Mann.

May 15 – Aug 30, 2010 Research sabbatical, Department of Neurology, Prof. Günther

Deuschl, Chair, Christian-Albrechts University, Kiel Germany.

**LICENSE:** Illinois State Board of Medical Examiners

July, 1981-present

**BOARD CERTIFIED:** American Board of Psychiatry and Neurology

November 1982

**HONORS AND AWARDS:** 

Phi Eta Sigma

Sigma Gamma Tau

Tau Beta Pi

Phi Kappa Phi

Alpha Omega Alpha

Best full-time faculty teacher of the year award, Department of

Medicine, 1985-86

Fellow, American Academy of Neurology (1990)

Best Doctors in America (1996-present)

Castle Connolly Top Doctor (2015-present)

America's Top Physicians, Consumers' Research Council of

America (2006-present)

Associate, Behavioral and Brain Sciences (1991)

IBC Leading Scientists of the World (2008)

Who's Who Among Students in American Colleges and

Universities (1977)

Who's Who in Frontiers of Science and Technology (1985)

Who's Who in the Midwest (1988)

Who's Who of Emerging Leaders in America (1990)

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Who's Who in Medicine and Healthcare (1996)

Who's Who in America (2002)

Pfizer Visiting Professor of Neurology, U. of Arkansas, 2007 Visiting Professor, Oregon Health Science University, 2010 Visiting Professor, University of Saskatchewan, 2013

Outstanding Scholar at SIU School of Medicine, 2014

Outstanding Teaching Award, Dept. Neurology, SIUSM, 2016

**MEMBERSHIPS:** American Academy of Neurology

Association of University Professors of Neurology

Central Society for Neurological Research

Movement Disorder Society Society for Neuroscience Tremor Research Group Parkinson Study Group

Neuroprotection Exploratory Trials in Parkinson Disease (National Institute of Neurological Disorders and Stroke)

**POSITIONS HELD:** 

June 1966 to June 1971 Student, Cooperative Engineering Program,

McDonnell-Douglas Corp. and Purdue U.

Aug. 1971 to Aug. 1974 National Institutes of Health

Physiology Training Grant

Indiana University, Bloomington, IN

Aug. 1973 to June 1975 Teaching Assistant, Department of

Anatomy and Physiology, Indiana University,

Bloomington, IN

July 1977 to July 1978 Intern, Department of Internal

Medicine, School of Medicine, Indiana University,

Indianapolis, IN

July 1978 to July 1981 Resident, Department of Neurology

Washington University School of Medicine, Barnes Hospital,

St. Louis, MO

July 1981 to July 1987 Assistant Professor of Neurology

Southern Illinois University School of Medicine,

Springfield, IL

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July 1987 to March 1996 Associate Professor of Neurology

Southern Illinois University School of Medicine,

Springfield, IL

Nov. 1988 to March 1996 Associate Professor of Psychiatry

Southern Illinois University School of Medicine,

Springfield, IL

Nov. 1988 to Sept. 2007 Director

Center for Alzheimer Disease and Related Disorders, Southern Illinois University School of Medicine,

Springfield, IL

Sept. 1992 to Feb. 1993 Acting Chief

Division of Neurology, Department of Medicine

Southern Illinois University School of Medicine,

Springfield, IL

July 1993 to 2004 Director

Neurology senior student electives

Feb. 1993 to May 1996 Interim Chair

Department of Neurology

Southern Illinois University School of Medicine,

Springfield, IL

Oct. 1993 to 1997 Member, Neurology Study Section A

National Institute of Neurological Disorders and Stroke

Bethesda, Maryland

July 1994 to 2000 Director, Student Neurology Clerkship

Department of Neurology

Southern Illinois University School of Medicine

Springfield, IL

March 1996 to June 2014 Professor of Neurology

Southern Illinois University School of Medicine

March 1996 to June 2014 Professor of Psychiatry

Southern Illinois University School of Medicine

May 1996 to Nov. 2012 Chair of Neurology

Southern Illinois University School of Medicine

July 1998 to June 2014 Director, Neurology Residency Program

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Department of Neurology, Southern Illinois U. School of

Medicine

July 1999 to Feb. 2001 Director, National Parkinson Foundation Center of Excellence

March 1, 2004 – July 2005 Southern Illinois University School of Medicine

Dec. 2007 – January 2010 Medical Director, Stroke Center, St. John's Hospital

Nov. 2011 – 2013 Neurology Clerkship Director, SIU School of Medicine

March 2004 – present Director, Parkinson Disease and Movement Disorders Center,

SIU School of Medicine

#### UNIVERSITY COMMITTEES AND SPECIAL ASSIGNMENTS:

Chair Laboratory Animal Care Committee

July 1985 - June 1988

Member Search committee for the director of Laboratory Animal Resources

1985

Chair Central Research Committee

July 1985 - September 1989

Member Springfield Committee for Research Involving Human Subjects

July 1988 – September 1989

Chair Springfield Committee for Research Involving Human Subjects

September 1989 - November 1992

Member Ad hoc committee for utilization of laboratory space

1989

Member Ad hoc committee for review of the Department of

Family Practice: 1991

Member Computing Advisory Committee, 1990

Chair Alzheimer Center Policy Advisory Committee

November 1988 - 2007

Member University Patents and Copyrights Committee

July 1985 - June 1996

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Member Misconduct in Science Committee

July 1990 - June 1996

Chair Misconduct in Science Committee

July 1996 - 1998

Member Research Policy Advisory Committee

July 1985 - Sept. 1993

Member Utilization Review for Memorial Medical Center.

1986 - 1992

Member LCME Subcommittee for institutional research: 1992

Member Clinical Chairs' Committee

Feb. 1993 -2012

Member Executive Committee,

Feb 1993 – 2012

Member Medical Service and Research Plan Committee

April 1993 – November 1997

Member Student Progress System Subcommittee on Appeals

July 1994 - 2001

Member Search Committee, Chair of Neurology

1994

Member Search Committee, Chair of Internal Medicine

1995

Member ad hoc Committee, Scholars in Biomedical Research Program

1998

Member Graduate Medical Education Committee

1998 - 2014

Member LCME task force subcommittee for graduate education in the basic

sciences and research. 1998

Member Curriculum 2000 workgroup on integration of basic sciences and clinical

medicine. 1999

Chair Curriculum 2000 neuroscience clerkship committee. 1999

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Member Internal Medicine and Pulmonary Medicine Internal Review Committee,

1999

Chair Dept of Neurology, St. John's Hospital, Springfield, IL, 2000-2012

Member Student Progress Committee, 2001-2005

Member Department of Medicine Research Development Task Force. September

2001-2002

Member Dean and Provost search committee. November 2001-June 2002

Member General Surgery Internal Review Committee, 2002

Chair of Psychiatry search committee, August 2002-November 2002

Chair SIUSOM grant overhead committee, June 2003-November 2003

Member Associate Dean for Research search committee, Sept. 2004-Dec. 2004

Chair Psychiatry Residency internal review committee, November 2004-

February 2005

Member Translational research task force, December 2007 – May 2008

# OFFICES IN PROFESSIONAL ORGANIZATIONS

Oct. 1993-Oct. 1996 Secretary-Treasurer, Central Society for Neurological Research

Oct. 1996-Oct. 1997 President, Central Society for Neurological Research

May 2004-Feb. 2013 President, Tremor Research Group

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#### **COMMITTEES IN PROFESSIONAL SOCIETIES**

American Academy of Neurology

Clinical Practice Committee, Geriatric

Neurology and Dementia Section Member, 1998-2007

Movement Disorder Society

Membership committee Member, 1998-2000

European Union Project NeuroTREMOR Scientific Advisory Board

May 2011-2013

Parkinson Study Group

Credentials Committee Member, 2011-2015

Task Force: European Recommendations on the

Diagnosis and Management of Essential Tremor European Federation of Neurological Societies External scientific advisor Feb 2012 - 2015

Tremor Rating Scale Task Force Chair, September 2011-2014

International Parkinson and Movement Disorder Society

Tremor Task Force Chair, September 2011-2017

International Parkinson and Movement Disorder Society

Tremor Study Group Chair, June 2017-present

International Parkinson and Movement Disorder Society

# PROFESSIONAL ADVISORY BOARDS

International Essential Tremor Foundation,

Kansas City, KS Member, Medical Advisory Board, 1988 - present

Alzheimer's Disease and Related

Disorders Association,

Springfield Chapter Member, Medical Advisory Board, 1986 - 2007

BlueCross-BlueShield of Illinois Medical Consultant, 1998 - 2003

Spastic Paralysis Research Foundation

Kiwanis International,

Illinois-Eastern Iowa District Medical Director, 2010 - present

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#### RESEARCH STUDY GROUPS

Tremor Research Group $2001 - \underline{present}$ NINDS NET-PD Study Group2003 - 2014Parkinson Study Group $2005 - \underline{present}$ 

# **CERTIFICATIONS** (date of recertification)

NIH Stroke Scale

ABCD2 Scale

Modified Rankin Scale

UPDRS

November 4, 2010

November 4, 2010

November 4, 2010

November 4, 2011

#### **GRANT REVIEWS**

National Institute of Neurological

Diseases and Stroke Special Reviewer, Neurology Study Section A, October

1992 - October 1993

Regular Member, October 1993 - October 1996.

Reserve member, October 1996 - 1997

Louisiana Board of Regents 2013

National Institute on Aging Special study section member (Locomotor Impairment

and Falls in the Elderly), March 1986.

National Institute on Deafness and

Other Communicative Diseases Ad hoc grant reviewer, 1998

NIH, SBIR (BBBP-1) Ad hoc grant reviewer, 2001

NIH, Clinical Neuroscience and

Neurodegeneration Study Section Reviewer, 2013 - 2015

National Science Foundation Ad hoc grant reviewer, 1984

Veterans Administration Ad hoc grant reviewer, 1986, 2000, 2003

Spinal Cord Research Foundation

Paralyzed Veterans of America Ad hoc grant reviewer, 1997

Illinois Department of Public

Health Ad hoc grant reviewer, 1996

International Tremor Foundation Ad hoc grant reviewer, 1997

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**International Essential Tremor** 

Foundation Grant reviewer, 2005-present

Prinses Beatrix Fonds Grant reviewer, 2010

German Ministry of Education

and Research

Grant reviewer, 2010

Alzheimer Research Alliance of

Oregon Ad hoc grant reviewer, 1995

United States-Israel Binational

Science Foundation Ad hoc grant reviewer, 1997, 2006, 2007

University of Texas Health Science

Center at San Antonio Ad hoc grant reviewer, 2000

Natural Sciences and Engineering

Research Council of Canada Ad hoc grant reviewer, 1998

The Wellcome Trust, London UK

Joint Infrastructure Fund Ad hoc grant reviewer, 1999, 2003, 2007

Michael J Fox Foundation Ad hoc grant reviewer, 2014

Netherlands Brain Foundation

(Hersenstichting)

Ad hoc grant reviewer, 2016

#### EDITORIAL BOARDS OF PROFESSIONAL JOURNALS

**Movement Disorders** November 1992 - November 1996

January 1998 – January 2002

**Tremor and Other Hyperkinetic Movements** November 2014 - <u>present</u>

# REFEREE SERVICE FOR PROFESSIONAL JOURNALS AND PUBLISHERS

Acta Neurologica Scandinavica American Academy of Neurology Annals of Biomedical Engineering Annals of Neurology Archives of Neurology Elble CV page 11 of 50

Behavioral and Brain Sciences

Behavioral Brain Research

**Biological Cybernetics** 

**BioMed Central** 

BMJ Open

Brain

**Brain Research** 

**Brain Stimulation** 

**Brain Topography** 

Cerebral Cortex

Chronic Illness

Cleveland Clinic Journal

Clinical Neuropharmacology

Clinical Neurophysiology

Complexity

Computer Methods and Programs in Biomedicine

Electroencephalography and Clinical Neurophysiology

**Engineering Science and Technology** 

**Experimental Aging Research** 

**Experimental Brain Research** 

European Journal of Neurology

European Journal of Applied Physiology

European Journal of Applied Physiology and Occupational Physiology

F.A. Davis (book reviews)

**Human Movement Science** 

IEEE Press (Institute of Electrical and Electronics Engineers, Inc.) (book reviews)

IEEE Journal of Biomedical and Health Informatics

International Journal of Neuroscience

Journal of Applied Physiology

Journal of Clinical Investigation

Journal of Clinical Movement Disorders

Journal of Electromyography and Kinesiology

Journal of Motor Behavior

Journal of Neurology

Journal of Neurophysiology

Journal of Neural Transmission

Journal of Neurological Sciences

Journal of Neurology, Neurosurgery and Psychiatry

Journal of NeuroRehabilitation and Engineering

Journal of Neuroscience

Journal of Neuroscience Methods

Journal of Parkinson's Disease

Journal of Physiology

Journal of Theoretical Biology

Lancet

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Lancet Neurology

Lippincott - Raven Publishers (book reviews)

Medical & Biological Engineering & Computing

Medical Engineering and Technology

Motor Control

Movement Disorders

Movement Disorders Clinical Practice

Neurodegenerative Disease Management

Neuroepidemiology

Neurology

Neurorehabilitation and Neural Repair

Neurotherapeutics

Neurotoxicology and Teratology

New England Journal of Medicine

Parkinson's Disease

Parkinsonism & Related Disorders

Perceptual and Motor Skills

PLOS ONE

Progress in Neurobiology

**Psychological Reports** 

Psychopharmacology

Science

Stroke

Teaching and Learning in Medicine

Transactions on Neural Systems and Rehabilitation Engineering

Tremor and Other Hyperkinetic Movement Disorders

The Cerebellum

# **PUBLICATIONS:**

#### Papers in peer-reviewed journals:

- 1. <u>Elble RJ</u>, Randall JE. 1976. Motor unit activity responsible for the 8- to 12-Hz component of human physiological finger tremor. <u>J Neurophysiol</u> 39:370-383.
- 2. <u>Elble RJ</u>, Randall JE. 1978. Mechanistic components of normal hand tremor. Electroenceph Clin Neurophysiol 44:72-82.
- 3. Kapila A, <u>Elble R</u>, Ratcheson RA, Burde R, Gado M. 1982. Radiologic demonstration of the dorsal medullocervical spur in adult Chiari malformation. <u>J Clin Neuro-Ophthalmology</u> 2:235-240.
- 4. <u>Elble RJ</u>, Schieber MH, Thach WT. 1984. Activity of muscle spindles, motor cortex and cerebellar nuclei during action tremor. Brain Res 323:330-334.

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- 5. <u>Elble RJ. 1986. Physiologic and essential tremor. Neurology</u> 36:225-231.
- 6. <u>Elble RJ</u>, Higgins C, Moody C. 1987. Stretch reflex oscillations and essential tremor. <u>J Neurol Neurosurg Psychiatry</u> 50:691-698.
- 7. <u>Elble RJ</u>, Giacobini E, Scarsella GF. 1987. Cholinesterases in cerebrospinal fluid: a longitudinal study in Alzheimer disease. <u>Arch Neurol</u> 44:403-407.
- 8. Norfray JF, Couch JR, <u>Elble</u> RJ, Good DC, Manyam BV, Patrick JL. 1988. Visualization of brain iron by mid-field MR. <u>Am J Neuroradiol</u> 9:77-82.
- 9. Becker R, Giacobini E, <u>Elble</u> R, McIlhany M, Sherman K. 1988. Potential pharmacotherapy of Alzheimer disease: a comparison of various forms of physostigmine administration. <u>Acta Neurol Scandinav</u> 77(suppl 116):19-29.
- 10. <u>Elble RJ</u>, Giacobini E, Higgins C. 1989. Choline levels are increased in cerebral spinal fluid of Alzheimer patients. <u>Neurobiol of Aging</u> 10:45-50.
- 11. <u>Elble</u> RJ, Moody C, Higgins C. 1990. Primary writing tremor: a form of focal dystonia? Movement Disorders 5:118-126.
- 12. Becker RE, Colliver J, <u>Elble</u> RJ, et al. 1990. Effects of metrifonate, a long-acting cholinesterase inhibitor, in Alzheimer disease: a report of an open trial. <u>Drug</u> Development Res 19:425-434.
- 13. <u>Elble RJ</u>, Sinha R, Higgins C. 1990. Quantification of tremor with a digitizing tablet. <u>J Neurosci Methods</u> 32:193-198.
- 14. <sup>1</sup>Elble RJ, Thomas SS, Higgins C, Colliver J. 1991. Stride-dependent changes in gait of older people. <u>J Neurol</u> 238:1-5.
- 15. <u>Elble RJ.</u> 1991. Inhibition of forearm EMG by palatal myoclonus. <u>Mov Disord</u> 6:324-329.
- 16. Elble RJ, Higgins C, Hughes L. 1992. The syndrome of senile gait. J Neurol 239:71-75.
- 17. <u>Elble RJ</u>, Higgins C, Hughes L. 1992. Longitudinal study of essential tremor. <u>Neurology</u> 42:441-443.
- 18. <u>Elble</u> RJ, Higgins C, Hughes L. 1992. Phase resetting and frequency entrainment of essential tremor. <u>Exp Neurol</u> 116:355-361.
- 19. Brilliant M, <u>Elble</u> RJ, Ghobrial M, Struble RG. 1992. Distribution of amyloid in the brainstems of patients with Alzheimer disease. Neurosci Lett 148:23-26.

<sup>1</sup> Selected for review in Sports Medicine Digest, 1992

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20. <u>Elble RJ</u>, Moody C, Leffler K, Sinha R. 1994. The initiation of normal walking. <u>Mov Disord</u> 9:139-146.

- 21. <u>Elble RJ</u>, Higgins C, Hughes L. 1994. Essential tremor entrains rapid voluntary movements. Exp Neurol 126:138-143.
- 22. <u>Elble RJ</u>, Higgins C, Leffler K, Hughes L. 1994. Factors influencing the amplitude and frequency of essential tremor. Mov Disord 9:589-596.
- 23. <sup>2</sup>Brilliant M, Hughes L, Anderson D, Ghobrial M, <u>Elble</u> R. 1995. Rarefied white matter in patients with Alzheimer disease. Alzheimer Disease Related Disorders 9:39-46.
- 24. <u>Elble</u> RJ, Brilliant M, Leffler K, Higgins C. 1996. Quantification of essential tremor in writing and drawing. <u>Mov Disord</u> 11:70-78.
- 25. Qureshi F, Morales A, <u>Elble</u> RJ. 1996. Tremor due to infarction in the ventrolateral thalamus. Mov Disord 11:440-444.
- 26. <u>Elble RJ</u>, Cousins R, Leffler K, Hughes L. 1996. Gait initiation by patients with lower-half parkinsonism. Brain 119:101-112.
- 27. Brilliant MJ, <u>Elble</u> RJ, Ghobrial M, Struble RG. 1997. Distribution of amyloid β–protein deposition in the corpus striatum of patients with Alzheimer's disease. Neuropath Applied Neurobiol 23:322-325.
- 28. Bashir K, <u>Elble</u> RJ, Ghobrial M, Struble RG, Brilliant M. Hemianopsia in dementia with Lewy bodies. Arch Neurol 1998;55:1132-1135.
- 29. <u>Elble RJ. Tremor in ostensibly normal elderly people.</u> Mov Disord 1998;13:457-464.
- 30. Zec RF, Landreth ES, Belman J, Fritz S, Hasara A, Fraizer W, Wainman S, McCool M, Grames E, O'Connell C, Harris R, Robbs R, Elble R, Manyam B. 1999. A comparison of phonemic, semantic, and alternating word fluency in Parkinson disease. Arch Clin Neuropsychol 14:255-264.
- 31. Matthews B, Zec RF, Elble RJ, Markwell SJ. Global executive functioning is commensurate with global cognitive functioning in PD. Arch Clin Neuropsychol 1999;14:634-5
- 32. Zec RF, Matthews B, Vost KG, Markwell SJ, Elble RJ. A comparison of mild AD patients and nondemented PD patients on the FLOPS. Arch Clin Neuropsychol 1999;14:622
- 33. <sup>3</sup>Henderson VW, Paganini-Hill A, Miller BL, <u>Elble</u> RJ, Reyes PF, Shoupe D, McCleary CA, Klein RA, Hake AM, Farlow MR. 2000. Estrogen for Alzheimer's disease in women: randomized, double-blind, placebo-controlled trial. Neurology 54:295-301.

<sup>2</sup> Selected for review in the 1995 Parkinson/Alzheimer Digest, PMSI Bugamor, The Netherlands.

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34. <u>Elble RJ</u>, Leffler K. 2000. Pushing and pulling with the upper extremities while standing: the effects of mild Alzheimer dementia and Parkinson disease. Mov Disord;15:255-268.

- 35. <u>Elble RJ.</u> 2000. Essential tremor frequency decreases with time. Neurology 55:1547-1551.
- 36. Ala TA, Hughes LF, Kyrouac GA, Ghobrial MW, <u>Elble</u> RJ. 2001. Pentagon copying is more impaired in dementia with Lewy bodies than in Alzheimer's disease. J Neurol Neurosurg Psychiatry 70:483-488.
- 37. Kovach MJ, Ruiz J, Kimonis K, Mueed S, Sinha S, Higgins C, Elble S, <u>Elble R</u>, Kimonis VE. 2001. Genetic heterogeneity in autosomal dominant essential tremor. Genetics Medicine 3:197-199.
- 38. Ala TA, Hughes LF, Kyrouac GA, Ghobrial MW, <u>Elble</u> RJ. The Mini Mental State Exam may help in the differentiation of dementia with Lewy bodies and Alzheimer's disease. International Journal of Geriatric Psychiatry 2002;17:503-509.
- 39. <u>Elble RJ.</u> Characteristics of physiologic tremor in young and elderly adults. Clin Neurophysiol 2003;114:624-635
- 40. Ala TA, Hughes LF, Kyrouac GA, Ghobrial MW, Elble RJ. The Mini-Mental State exam may help in the differentiation of dementia with Lewy bodies and Alzheimer's disease. Research and Practice in Alzheimer's Disease. 2003;7:231-235.
- 41. Elble RJ, Higgins C, Elble S. Electrophysiologic transition from physiologic tremor to essential tremor. Mov Disord 2005;20:1038-1042.
- 42. Zesiewicz TA, Elble R, Louis ED, Hauser RA, Sullivan KL, Dewey RB Jr, Ondo W, Gronseth GS, Weiner WJ. Practice Parameter: Therapies for Essential Tremor (An Evidence Based Review). Report of the Quality Standards Subcommittee of the American Academy of Neurology. Neurology 2005;64:2008-2020.
- 43. Elble RJ. Gravitational artifact in accelerometric measurements of tremor. Clin Neurophysiol 2005;116:1638-1643.
- 44. Ondo WG, Jankovic J, Connor GS, Pahwa R, Elble R, Stacy MA, et al. Topiramate in essential tremor. Neurology 2006;66:672-7.
- 45. Pyo G, Elble RJ, Ala T, Markwell SJ. The characteristics of patients with uncertain/mild cognitive impairment on the Alzheimer's Disease Assessment Scale. Alzheimer Dis Assoc Disord 2006;20:16-22

<sup>&</sup>lt;sup>3</sup> Selected for expedited publication

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46. Shatunov A, Sambuughin N, Jankovic J, Elble R, Lee HS, Singleton AB, Dagvadorj A, Ji J, Zhang Y, Kimonis VE, Hardy J, Hallett M, Goldfarb LG. Genomewide scans in American families reveal genetic linkage of essential tremor to a region on chromosome 6p23. Brain 2006;129:2318-31

- 47. Elble RJ, Pullman SL, Matsumoto J, Raethjen J, Deuschl G, Tintner R. Tremor amplitude is logarithmically related to 4- and 5-point tremor rating scales. Brain 2006;129:2660-6
- 48. Stacy MA, Elble RJ, Ondo WG, Wu S-C, and Hulihan J, for the \*TRS Study Group. Assessment of Inter-Rater and Intra-Rater Reliability of the Fahn-Tolosa-Marín Tremor Rating Scale (TRS) in Essential Tremor. Mov Disord 2007;22:833-8.
- 49. Elble RJ, Lyons KE, Pahwa R. Levetiracetam is not effective for essential tremor. Clin Neuropharmacol 2007;30:350-356.
- 50. Goetz CG, Stebbins GT, Wolff D, Deleeuw W, Bronte-Stewart H, Elble R, Hallett M, Nutt J, Ramig L, Sanger T, Wu AD, Kraus PH, Blasucci LM, Shamim EA, Sethi KD, Spielman J, Kubota K, Grove AS, Dishman E, Taylor CB. Testing objective measures of motor impairment in early Parkinson's disease: Feasibility study of an at-home testing device. Mov Disord 2009;24:551-556.
- 51. Louis ED, Faust PL, Vonsattel JPG, Honig LS, Rajput A, Rajput A, Pahwa R, Lyons KE, Ross GW, Elble RJ, Erickson-Davis C, Moskowitz CB, Lawton A. Torpedoes in Parkinson's disease, Alzheimer's disease, essential tremor, and control brains. Mov Disord 2009;24:1600-1605.
- 52. Elble RJ, Biondi DM, Ascher S, Wiegand F, Hulihan J. Carisbamate in essential tremor: brief report of a proof of concept study. Mov Disord 2010;25:634-8.
- 53. Elble RJ, Suchowersky O, Shaftman S, Weiner WJ, Huang P, Tilley B, on behalf of the NINDS NET-PD investigators. Impact of belief in neuroprotection on therapeutic intervention in Parkinson disease. Mov Disord 2010;25:1082-6.
- 54. Fasano A, Herzog J, Raethjen J, Rose FEM, Muthuraman M, Volkmann J, Falk D, Elble R, Deuschl G. Gait ataxia in essential tremor is differentially modulated by thalamic stimulation. Brain 2010;133:3635-48.
- 55. Heldman DA, Jankovic J, Vaillancourt DE, Prodoehl J, Elble RJ, Giuffrida JP. Essential tremor quantification during activities of daily living. Parkinsonism Relat Disord 2011;17:537-42.
- 56. Zesiewicz TA, Elble RJ, Louis ED, Gronseth GS, Ondo WG, Dewey RB, Jr., et al. Evidence-based guideline update: Treatment of essential tremor: Report of the Quality Standards Subcommittee of the American Academy of Neurology. Neurology 2011;77:1752-5.

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57. Muthuraman M, Heute U, Arning K, Anwar AR, Elble R, Deuschl G, Raethjen J. Oscillating central motor networks in pathological tremors and voluntary movements. What makes the difference? Neuroimage 2012;60:1331-1339.

- 58. Elble R, Comella C, Fahn S, et al. Reliability of a new scale for essential tremor. Mov Disord 2012;27:1567-1569.
- 59. Zesiewicz TA, Sullivan KL, Hinson V, Stover NP, Fang J, Jahan I, Miller A, Carranza MA, Elble R. Multisite, double-blind, randomized, controlled study of pregabalin for essential tremor. Mov Disord 2013;28:249-50
- 60. Elble R, Bain P, Joao Forjaz M, et al. Task force report: Scales for screening and evaluating tremor: Critique and recommendations. Mov Disord 2013;28:1793-800.
- 61. Kaul S, Elble RJ. Impaired pentagon drawing is an early predictor of cognitive decline in Parkinson's disease. Mov Disord 2014;29:427-8.
- 62. Bhargava P, Elble RJ. Clinical Reasoning: An unusual cause of transverse myelitis? Neurology 2014;82:e46-50.<sup>4</sup>
- 63. Forjaz MJ, Ayala A, Testa CM, Bain PG, Elble R, Haubenberger D, Rodriguez-Blazquez C, Deuschl G, Martinez-Martin P. Proposing a Parkinson's disease specific tremor scale from the MDS-UPDRS. Mov Disord. 2015;30:1139-1143.
- 64. Bhargava P, Siddiqui F, Aggarwal B, Moore BE, Elble RJ. A unique case of intravascular lymphoma mimicking encephalomyeloradiculoneuropathy. Neurologist 2015;20:18-21.
- 65. Elkouzi A, Kattah JC, Elble RJ. Hypertrophic olivary degeneration does not reduce essential tremor. Movement Disorders Clinical Practice. 2016;3 (2):209-211
- 66. Haubenberger D, Abbruzzese G, Bain PG, et al. Transducer-based evaluation of tremor. Mov Disord 2016;31(9):1327-36.
- 67. Elble RJ. The Essential Tremor Rating Assessment Scale. J Neurol Neuromed 2016;1(4):34-38.
- 68. Elble R, Hellriegel H, Raethjen J, Deuschl G. Assessment of head tremor with accelerometers versus gyroscopic transducers. Movement Disorders Clinical Practice 2017;4(2):205-211.
- 69. Michael AP, Elkouzi A, Elble RJ. Pearls & Oy-sters: Low-pressure hydrocephalus and inadequate shunting. Neurology 2017;88(17):e174-e177.
- 70. Elble RJ, Ellenbogen A. Digitizing tablet and Fahn–Tolosa–Marin ratings of Archimedes spirals have comparable minimum detectable change in essential tremor. Tremor Other Hyperkinet Mov 2017; 7. doi: 10.7916/D89S20H7

<sup>&</sup>lt;sup>4</sup> Winner of the 2015 Neurology® Resident and Fellow Writing Award

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71.

# Other papers from multicenter trials

1. Elm JJ, Goetz CG, Ravina B, Shannon K, Wooten GF, Tanner CM, Palesch YY, Huang P, Guimaraes P, Kamp C, Tilley BC, Kieburtz K; NET-PD Investigators. Are responsive outcome for Parkinson's disease neuroprotection futility studies. Ann Neurol. 2005;57:197-203.

- 2. The NINDS NET-PD Investigators. A phase II, randomized, double blinded, futility clinical trial of creatine and minocycline in early Parkinson's disease. Neurology 2006;66:664-71
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- 62. <u>Elble RJ.</u> 2002. Limitations of accelerometry in motion analysis. 7<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders. Miami FL. Nov. 14.
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- 66. <u>Elble RJ</u>, Higgins C, Elble S. 2004. Electrophysiologic transition from physiologic tremor to essential tremor. Mov Disord 19 (suppl 9): S448
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- 72. Elble RJ. Clinical assessment of ET with motion transducers: Better than rating scales? Consensus Conference on Essential Tremor, Washington DC, October 20-21, 2005.
- 73. Christopher G. Goetz, Ken Kubota, Glenn T. Stebbins, Helen Bronte-Stewart, Rodger Elble, Mark Hallett, John Nutt, Lorraine Ramig, Terrance Sanger, Allen Wu, Peter Kraus, C. Barr Taylor. At-Home Testing Battery for collecting objective motor data: technology to capture longitudinal changes in Parkinson disease. World Parkinson Conference, Washington, DC, 2006.
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- 76. Elble RJ. Low pressure adult hydrocephalus. The 2<sup>nd</sup> International Congress on Gait and Mental Function. Amsterdam, The Netherlands, Feb. 1, 2008.
- 77. Christopher G. Goetz, Glenn T. Stebbins, Ken Kubota, William C. DeLeeuw, Helen Bronte-Stewart, Rodger Elble, Mark Hallett, John Nutt, Lorraine Ramig, Terence Sanger, Allan D. Wu, Peter H. Kraus, Lucia M. Blasucci, Ejaz A. Shamim, Kapil Sethi, Jennifer Spielman, David Wolff, Andrew S. Grove, Craig B. Taylor. Parkinson's Disease At-Home Testing Device: Feasibility and Relationship to UPDRS Changes over Six Months. Annual Meeting of the American Academy of Neurology, April 15, 2008, Chicago IL.
- 78. Suchowersky O, Huang P, Elble R, Weiner W. Effect of investigator perception of treatment efficacy on outcome measures in a clinical trial of neuroprotective agents in Parkinson disease. 12<sup>th</sup> International Congress of Parkinson Disease and Movement Disorders. June 24, 2008, Chicago IL.

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- 84. Ottaviani D, Elble R, Colosimo C, Fabbrini G, Berardelli A, Williams DR. Clinical syndromes and disease progression in progressive supranuclear palsy. Mov Disord 2009;24:S416. Parkinson Disease and Movement Disorders Congress. Paris France. June 2009.
- 85. Siddiqui FM, Agrawal BK, Acharya HK, Elble RJ. A Unique Case of Hyperviscosity Syndrome in a Patient with Chronic Lymphocytic Leukemia Treated with Rituximab. 2010 Annual Meeting of the American Academy of Neurology. Toronto. April 15.
- 86. Elble RJ. Neurophysiology of tremor. Clinical Neurophysiology 2010; 121: S81-82.
- 87. Heldman D, Filipkowski D, Jankovic J, Vaillancourt D, Prodoehl J, Elble R, Giuffrida J. Essential tremor quantification during activities of daily living. 2011 Annual Meeting of the American Academy of Neurology. Honolulu HI, April 12.
- 88. Elble R, Kaul S. Impaired pentagon drawing is an early indication of impending cognitive decline in Parkinson disease. 2011 Annual Meeting of the American Academy of Neurology. Honolulu HI, April 12.
- 89. Elble R, Hellriegel H, Raethjen J, Deuschl G. Logarithmic relationship between head tremor and 5-point tremor rating. 2011 International Congress of Parkinson Disease and Movement Disorders. Toronto.

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90. Heldman D, Filipkowski D, Jankovic J, Vaillancourt D, Prodoehl J, Elble R, Giuffrida J. Essential tremor quantification during activities of daily living. 2011 International Congress of Parkinson Disease and Movement Disorders. Toronto.

- 91. Elble R, LeWitt P, Lyons K, Ondo W, Pahwa R, Sethi K, Stover N, Tarsy D, Testa C, Tintner R, Zesiewicz T. Inter-Rater Reliability of the Essential Tremor Rating Assessment Scale (TETRAS). 2012 Annual Meeting of the American Academy of Neurology. New Orleans, April 25.
- 92. Elble R, LeWitt P, Lyons K, Ondo W, Pahwa R, Sethi K, Stover N, Tarsy D, Testa C, Tintner R, Zesiewicz T for the Tremor Research Group. Reliability of the Essential Tremor Rating Assessment Scale (TETRAS). 2012 Congress of the Movement Disorder Society. Dublin Ireland, June 21.
- 93. Elble R, Dhakal L, Bhargava P, Kaul S, Jalan P, Pandav V, Lyons K, Ondo W, Pahwa R, Sethi K, Tarsy D, Tintner R. Reliability of the Essential Tremor Rating Assessment Scale in untrained neurology residents. 2013 Annual Meeting of the American Academy of Neurology. San Diego, March 21.
- 94. Elkouzi A, Kattah J, Elble R. Hypertrophic olivary degeneration does not reduce essential tremor. Annual Congress of the International Parkinson and Movement Disorder Society. San Diego, June 18, 2015
- 95. Elble R, Zesiewicz T. Fahn-Tolosa-Marín tremor rating scale and digitizing tablet have comparable minimum detectable change. Annual Congress of the International Parkinson and Movement Disorder Society. San Diego, June 18, 2015
- 96. Akano E, Zesiewicz T, Elble R. Fahn-Tolosa-Marín scale, digitizing tablet and accelerometry have comparable minimum detectable change. Annual Congress of the International Parkinson and Movement Disorder Society. San Diego, June 18, 2015
- 97. Elble, R. Digitizing tablet and Fahn-Tolosa-Marín tremor ratings have comparable minimum detectable change. Annual Congress of the International Parkinson and Movement Disorder Society. Berlin Germany, June 22, 2016.
- 98. Maricich Y, Newbold E, Elble R. TETRAS Applicability and Study Design In Randomized, Placebo Controlled Clinical Trial Of Cav3 Modulation For Essential Tremor Patients. Mov Disord. 2017;32(Suppl S2):506.

# INVITED REGIONAL, NATIONAL AND INTERNATIONAL LECTURES

- 1. Elble RJ. 1988. Tremor. **University of Minnesota**, Minneapolis, October 1988.
- 2. <u>Elble RJ.</u> 1990. Relationship between essential and physiological tremor. Presented at the Symposium on Essential Tremor, **International Tremor Foundation**, Washington, DC, April 28, 1990.

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3. <u>Elble</u> RJ. 1990. Neurophysiological methods of classifying essential tremor. **National Institute on Aging workshop** on Essential Tremor in the Aging Nervous System, Bethesda, MD, April 24, 1990.

- 4. <u>Elble RJ.</u> 1991. Characteristics of gait in neurologically normal and abnormal elderly people. Presented at the 1991 annual meeting of the **American Academy of Neurology**, as a part of a course entitled Neurologic Rehabilitation, April 26, Boston, MA.
- 5. <u>Elble RJ.</u> 1991. Characteristics of gait in healthy old people. Presented at the 1991 annual meeting of the **American Academy of Neurology**, as a part of a course entitled Gait Disturbances in the Elderly, April 27, Boston, MA.
- 6. <u>Elble RJ.</u> 1991. Characteristics of gait in neurologically normal and abnormal elderly people. Presented for the **American Academy of Neurology**, as a part of a one-week workshop entitled Neurologic Rehabilitation of Stroke Patients, October 17, Springfield, IL.
- 7. <u>Elble RJ.</u> 1992. A mechanistic view of normal and abnormal tremors. Dept. of Kinesiology, **University of Illinois**, Urbana (April 17).
- 8. <u>Elble RJ.</u> 1992. The pathophysiology of tremor. Presented at the 1992 annual meeting of the **American Academy of Neurology** as a part of a course entitled Motor Control, May 1992, San Diego, CA.
- 9. <u>Elble RJ.</u> 1992. What causes essential tremor? Visiting lecture at **Albert-Ludwigs University**, Freiburg, Germany, June 17, 1992.
- 10. <u>Elble RJ.</u> 1992. Relationship of essential and physiologic tremor. **Second International Congress of Movement Disorders**, Munich, Germany (June 27).
- 11. <u>Elble RJ.</u> 1992. Differential diagnosis: medical and cognitive markers in Alzheimer disease and related disorders. **Am Society on Aging**, Chicago, IL (August 4, 1992).
- 12. <u>Elble RJ.</u> 1992. Sensorimotor Integration and Disintegration. Workshop sponsored by the **National Institute on Aging and the Life Sciences Division of NASA**, Bethesda, MD (August 19-21).
- 13. <u>Elble RJ.</u> 1992. The mystery of essential tremor. International Tremor Foundation Symposium for the establishment of a support group in Kansas City, **U. of Kansas Medical Center**, Kansas City, Kansas (August 29, 1992).
- 14. <u>Elble RJ.</u> 1992. Current therapy for tremor. The **University of Medicine and Dentistry of New Jersey**, Newark, September 23.
- 15. <u>Elble RJ.</u> 1993. Balance and locomotion in normal older people. Presented at the 1993 annual meeting of the **American Academy of Neurology**, as a part of a course entitled Gait Disturbances in the Elderly, April 26, New York.

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16. <u>Elble RJ.</u> 1994. Balance and locomotion in normal older people. Presented at the 1994 annual meeting of the **American Academy of Neurology**, as a part of a course entitled Gait Disturbances in the Elderly, May 1994, Washington DC.

- 17. <u>Elble RJ.</u> 1994. The pathophysiology of tremor. Presented at the 1994 annual meeting of the **American Academy of Neurology** as a part of a course entitled Motor Control, May 1994, Washington DC.
- 18. <u>Elble RJ.</u> 1994. Disturbances of gait in patients with dementia. Presented at the **Third International Springfield Alzheimer Symposium**, May 1994, Springfield IL.
- 19. <u>Elble</u> RJ. 1994. The role of aging in the clinical expression of essential tremor. **Second International Symposium on Neurobiology and Neuroendocrinology of Aging**, July 1994, Bregenz, Austria.
- 20. <u>Elble RJ.</u> 1994. Tremor: unanswered questions. **Third International Congress of Movement Disorders**. Nov. 8, 1994, Orlando, Florida.
- 21. <u>Elble RJ.</u> 1995. Control of posture and locomotion. Presented at the 1995 annual meeting of the **American Academy of Neurology** as a part of a course entitled Motor Control, May 1995, Seattle, Washington.
- 22. <u>Elble RJ.</u> 1995. Identification of geriatric gait disorders. Presented at the 1995 annual meeting of the **American Academy of Neurology** as a part of a course entitled Geriatric Neurology, May 1995, Seattle, Washington.
- 23. <u>Elble RJ.</u> 1996. Insights from patients with unusual tremor. Presented at the 1996 annual meeting of the **American Academy of Neurology** as a part of a course entitled Motor Control, March 1996, San Francisco.
- 24. <u>Elble RJ.</u> 1996. Tremors resulting from lesions in the Guillain-Mollaret triangle. **Christian-Albrechts University,** Kiel, Germany. June 27, 1996.
- 25. <u>Elble RJ.</u> 1996. Update on essential tremor: keynote address. Tenth annual symposium on Hyperkinetic Movement Disorders. **Parkinson Study Group and the Movement Disorders Society**. Oct. 13, Miami, Florida.
- 26. <u>Elble RJ.</u> 1997. Pathophysiology of tremor. Presented at the annual meeting of the **American Academy of Neurology**, Motor Control dinner seminar, Boston, MA.
- 27. <u>Elble RJ.</u> 1997. Cerebral control of locomotion: gait apraxia. Presented at the annual meeting of the **American Academy of Neurology**, Motor Control Course, Boston, MA.
- 28. <u>Elble RJ.</u> 1997. Animal models of action tremor. Presented at the international meeting <u>Tremor: mechanisms and clinical aspects</u> in **Kiel, Germany**, July 11-12, 1997.

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29. <u>Elble RJ.</u> 1998. Multi-joint movements: Lessons in biomechanics for the clinician. Presented at the annual meeting of the **American Academy of Neurology**, Motor Control Course, Minneapolis, MN.

- 30. <u>Elble RJ.</u> 1998. Differential diagnosis and classification of essential tremor. **Current Issues in Essential Tremor**, an invited workshop sponsored by Athena Neurosciences. **Bermuda**. Sept. 14, 1998.
- 31. <u>Elble RJ.</u> 1998. Gait disorders: pathophysiology of standing and locomotion. Plenary lecture. **5**<sup>th</sup> **International Congress of Parkinson's Disease and Movement Disorders**. New York. Oct. 11, 1998.
- 32. <u>Elble RJ</u> and Giladi N. 1998. Gait and freezing in Parkinson's disease. Breakfast seminar. 5<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders. New York. Oct. 13, 1998.
- 33. <u>Elble RJ.</u> 1999. Gait disorders in progressive supranuclear palsy: a comment on the utility of electrophysiologic tests. **First International Brainstorming Conference on PSP**. National Institutes of Health, Bethesda, MD, March 18-19.
- 34. <u>Elble RJ.</u> 1999. Movement disorders of the Guillain-Mollaret triangle. Presented at the annual meeting of the **American Academy of Neurology**, Motor Control Course, Toronto, Canada.
- 35. <u>Elble RJ.</u> 1999. Gait disorders. Presented at the annual meeting of the **American Academy of Neurology**, Motor Control Course, Toronto, Canada.
- 36. <u>Elble</u>, RJ. 1999. Tremor: pathophysiology and treatment. Grand Rounds, Department of Neurology, Neurosurgery and Neuroscience. **University of Illinois, Peoria**. Sept. 3.
- 37. <u>Elble RJ.</u> 2000. Pathophysiology of tremor. Presented at the annual meeting of the **American Academy of Neurology**, Diagnosis and Treatment of Tremor dinner seminar, San Diego.
- 38. <u>Elble RJ.</u> 2000. Common causes of impaired locomotion and less common treatable conditions. **Movement Disorder Society's 6<sup>th</sup> International Congress**. Barcelona, Spain. June 11.
- 39. <u>Elble RJ.</u> 2000. Gait disorders in the elderly. **University of Kentucky**. Lexington. October 27.
- 40. <u>Elble RJ.</u> 2001. Pathophysiology of common tremor disorders. **American Academy of Neurology**, Diagnosis and Treatment of Tremor dinner seminar, Philadelphia, May 6.
- 41. <u>Elble RJ. 2001</u>. Tremor and dopamine agonists. Presented at an **invited panel** workshop sponsored by Pharmacia, June 29, New York.

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42. <u>Elble RJ.</u> 2002. AD: Motor control deficits and therapy. **7th International Geneva/Springfield Symposium on Advances in Alzheimer Therapy**. April 4, Geneva Switzerland.

- 43. <u>Elble RJ.</u> 2002. Pathophysiology of common tremor disorders. **American Academy of Neurology**, Diagnosis and Treatment of Tremor dinner seminar, Denver, April 14.
- 44. <u>Elble RJ.</u> 2002. Treatment options in tremor disorders. **7**<sup>th</sup> **International Congress of Parkinson's Disease and Movement Disorders**. Miami, FL. Nov. 11.
- 45. <u>Elble RJ.</u> 2003. Pathophysiology and treatment of tremor. **American Academy of Neurology**, Diagnosis and Treatment of Tremor dinner seminar, Honolulu, March 30.
- 46. Elble RJ. 2004. Gait disorders in the dementias. 8<sup>th</sup> International Montreal/Springfield Symposium on Advances in Alzheimer Therapy. Montreal Canada. April 14, 2004.
- 47. <u>Elble</u>, RJ. 2004. Alzheimer disease and related disorders: treatment update. Grand Rounds, Department of Neurology, Neurosurgery and Neuroscience. **University of Illinois**, **Peoria**. April 21.
- 48. Elble, RJ. 2004. Non-Parkinson movement disorders. **U. of Illinois Champaign**. May 21, 2004.
- 49. Elble, RJ. 2004. Quantitative assessment of Parkinson tremor. **Kinetics Foundation**, **Palo Alto, CA**. May 26, 2004.
- 50. Elble RJ. 2004. Gait disorders. 8th International Congress of Parkinson's Disease and Movement Disorders, Rome, Italy, April 14.
- 51. Elble RJ. 2006. Gait and dementia. 1<sup>st</sup> International Congress on Gait and Mental Function. Madrid, Spain, Feb. 3-5, 2006
- 52. Elble RJ. 2006. Update on essential tremor. **Northwestern University**, Chicago IL, March 3, 2006.
- 53. Elble RJ. 2006. Update on essential tremor. **Barrow Neurological Institute**, Phoenix AZ, March 10, 2006.
- 54. <u>Elble RJ.</u> 2006. Gait and balance disorders. **American Academy of Neurology**, Breakfast seminar, San Diego, CA, April 8.
- 55. Elble RJ. 2006. Essential tremor: quest for a cure. **University of Alabama Birmingham**, Birmingham AL, May 9, 2006.

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56. Elble RJ. 2006. Tremor pathophysiology: the role of neuronal oscillation in producing symptoms other than tremor. **Movement Disorders Congress, Kyoto Japan**, November 1, 2006.

- 57. Elble RJ. 2006. Essential tremor: the road to finding a cure. **Sun Yat-Sen University**, Guangzhou China. November 3, 2006.
- 58. <u>Elble RJ.</u> 2007. Gait and balance disorders. **American Academy of Neurology**, Breakfast seminar, Boston, MA, April 29.
- 59. Elble RJ. 2007. Update on movement disorders. **American Academy of Family Physicians annual assembly**. Chicago, Illinois, October 5, 2007.
- 60. Elble RJ. 2007. Essential tremor: progress toward a cure. **University of Arkansas Medical Center**, Little Rock AR, November 30, 2007.
- 61. Elble RJ. 2007. Practical approach to gait disorders. **University of Arkansas Medical Center**, Little Rock AR, November 30, 2007.
- 62. Elble RJ. 2008. Parkinson dementia: Do we have a treatment? **10th International Hong Kong / Springfield Symposium on Advances in Alzheimer Therapy.** Hong Kong, March 1, 2008.
- 63. Elble RJ. 2008. Gait and balance disorders. **American Academy of Neurology**, Breakfast seminar, Boston, MA, April 17.
- 64. Elble RJ. 2009. Gait and balance disorders. **American Academy of Neurology**, Breakfast seminar, Seattle WA, April 27.
- 65. Elble RJ. 2009. Hyperkinetic movement disorders. **American Academy of Neurology**, Evening seminar, Seattle WA, May 1.
- 66. Elble RJ. 2009. Tremor. Plenary lecture, 13<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders. Paris, France. June 7.
- 67. Elble RJ. 2009. Gait disorders. Video session, 13<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders. Paris, France. June 7.
- 68. Elble RJ. 2009. Tremor: five questions to be answered. **Neurology Grand Rounds. Rush University Medical Center**, Chicago, Illinois. September 1.
- 69. Elble RJ. 2009. Hyperkinetic movement disorders: diagnosis and treatment. **Neurology Grand Rounds. University of Illinois**, Peoria, Illinois. October 2.
- 70. Elble RJ. 2010. Cerebrospinal fluid drainage in dementia. AD and normal pressure hydrocephalus. **Springfield-Geneva Alzheimer Symposium. Geneva, Switzerland.** March 25.

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71. Elble RJ. 2010. Gait disorders in neurodegenerative disease: focused evaluation and quantification. **Department of Mechanical Engineering. University of Maryland BC.** Baltimore, Maryland. May 7.

- 72. Elble RJ. 2010. Scoring tremor severity: tools and rating scales. Teaching course, 14<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders. Buenos Aires. June 17.
- 73. <u>Elble RJ.</u> 2010. Mechanisms of tremor: what can be learned from MEG? **Christian-Albrechts University**, Kiel, Germany. June 10, 2010.
- 74. <u>Elble RJ.</u> 2010. The travails of treating tremor: how much did the treatment help? **Christian-Albrechts University,** Kiel, Germany. August 29, 2010.
- 75. <u>Elble RJ.</u> 2010. Normal pressure hydrocephalus: why is initial improvement frequently not sustained? **Oregon Health Sciences University,** Portland, Oregon. October 9, 2010.
- 76. <u>Elble RJ.</u> 2010. Essential tremor: 3 barriers to finding a cure. **Oregon Health Sciences University,** Portland Oregon. October 9, 2010.
- 77. <u>Elble RJ.</u> 2010. The clinical physiology of tremor. Special Lecture, **29**<sup>th</sup> **International Congress of Clinical Neurophysiology**. Kobe Japan. October 31, 2010.
- 78. <u>Elble RJ.</u> 2010. Neurophysiology of tremor. **29**<sup>th</sup> **International Congress of Clinical Neurophysiology**. Kobe Japan. October 31, 2010.
- 79. <u>Elble RJ.</u> 2011. History of objective measures of movement disorders. **15**<sup>th</sup> **International Congress of Parkinson Disease and Movement Disorders. Workshop sponsored by the Kinetics Foundation.** Toronto. June 7.
- 80. <u>Elble RJ. 2011.</u> What is dystonic tremor? **5**<sup>th</sup> **International Dystonia Symposium.** Barcelona Spain. October 20.
- 81. <u>Elble RJ.</u> 2012. How similar and dissimilar are AD, PD, DLB and FTD? **Springfield-Stockholm Alzheimer Symposium.** Stockholm, Sweden. May 12.
- 82. <u>Elble RJ.</u> 2012. What is essential tremor? Clinical perspective. **16th International** Congress of Parkinson Disease and Movement Disorders. Dublin Ireland, June 21.
- 83. <u>Elble RJ.</u> 2012. Objective measures of movement disorders. What is taking so long? **16**<sup>th</sup> International Congress of Parkinson Disease and Movement Disorders. Workshop sponsored by the Kinetics Foundation. Dublin. June 19.
- 84. <u>Elble RJ.</u> 2013. Essential Tremor. Parkinson Disease and Movement Disorders Update. **Annual Meeting of the American Academy of Neurology**. San Diego. March 16.

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85. <u>Elble RJ.</u> 2013. Practical approach to gait disorders. **University of Saskatchewan**, Div. of Neurology. Saskatoon, Saskatchewan. Sept. 26.

- 86. <u>Elble RJ.</u> 2013. Living with Parkinson disease. **Parkinson Society Saskatchewan**, Saskatoon, Saskatchewan. Sept. 26.
- 87. <u>Elble RJ.</u> 2013. The Achilles heel of tremor. **University of Saskatchewan**, Div. of Neurology. Saskatoon, Saskatchewan. Sept. 27.
- 88. <u>Elble RJ.</u> 2014. Deep brain stimulation for disabling tremor. **University of Illinois**, Dept. of Neurology. Peoria, Illinois, March 14.
- 89. <u>Elble RJ.</u> 2014. Tremor measurements and neurophysiological tests for the diagnosis of tremors. **30**<sup>th</sup> **International Congress of Clinical Neurophysiology (ICCN)**, Berlin Germany, March 21.
- 90. <u>Elble RJ.</u> 2014. Is essential tremor a dementing neurodegenerative disorder? **Geneva-Springfield Symposium on Advances in Alzheimer Therapy.** Geneva Switzerland. March 28.
- 91. <u>Elble RJ.</u> 2014. Essential Tremor. Parkinson Disease and Movement Disorders Update. **Annual Meeting of the American Academy of Neurology**. Philadelphia. May 2.
- 92. <u>Elble RJ.</u> 2014. Pathophysiology and treatment of tremor. **Indiana Neurological Society**. Indianapolis. November 14.
- 93. Elble RJ. 2015. Pathophysiology and treatment of tremor. Parkinson Disease and Movement Disorders Update. **Annual Meeting of the American Academy of Neurology.** Washington DC. April 20.
- 94. Elble RJ. 2015. Pathology of essential tremor. **Essential Knowledge Gaps in the Field of Essential Tremor,** NIH Bethesda MD, May 2015
- 95. Elble RJ. 2015. Clinical measurement of essential tremor. **Essential Knowledge Gaps** in the Field of Essential Tremor, NIH Bethesda MD, May 2015
- 96. Elble RJ. 2016. Alzheimer disease and sleep. **14th International Athens/Springfield Symposium on Advances in Alzheimer Therapy**, Athens Greece, March 12.
- 97. Elble RJ. 2016. Should we redefine essential tremor? **20**<sup>th</sup> **International Congress of Parkinson Disease and Movement Disorders.** Berlin Germany, June 2016.
- 98. Elble RJ. 2016. Living with Parkinson disease. **Central Indiana Parkinson Disease Symposium**, Indianapolis, Indiana. Oct. 22.

# RESEARCH PROJECTS AND FUNDING

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1. Neuromuscular Control in Action Tremor (Principal Investigator)

7/84-6/85: American Parkinson Disease Association Grant

7/84-6/87: NINDS Grant 1-RO1 NS20973 7/88-6/92: NINDS Grant 2-RO1 NS20973 12/92-11/97: NINDS Grant 2-RO1 NS20973

2. Aging of the Brain and Dementia: Early Detection (Co-Investigator)

Principal Investigator: Ezio Giacobini, MD, PhD

Collaborators: Robert Becker, MD

12/85-12/88: NIA Grant 1-R01-AG05416

3. Regional Alzheimer Disease Assistance Center Grant (Director) Collaborators: R. Becker, MD, E. Giacobini, MD, PhD, et al. Funding:

1989-2007 Illinois Department of Public Health

4. Gait Disturbances in the Elderly: Senile Gait (Principal Investigator) Funding:

7/87-6/90: Whitaker Foundation 7/90-6/92: NIA grant P30 AG08014 7/92-6/97: NIA grant RO1 AG10837

- 5. A long-term tolerance and safety study of HP 029 (1,2,3,4-tetrahydro-9-aminoacridin-1-OL maleate) in patients with Alzheimer's disease (Hoechst-Roussel Pharmaceuticals, Inc). 1/91-12/91
- 6. Alzheimer Disease Research Center Grant. NIA grant P30 AG08014, Principal Investigator: Robert E. Becker, MD; Clinical Core Director: Rodger J. Elble, MD, PhD; 1991-1996
- 7. Conjugated estrogens for women with Alzheimer's disease: a randomized, double-blind, placebo-controlled, multi-center trial (Wyeth-Ayerst Laboratories). V. Henderson (PI), U. Southern California. April 1997-1998.
- 8. Noncomparative, open-label study to identify Tasmar dosage regimen in nonfluctuating Parkinson's disease patients treated with Sinemet, with follow-up extension of Tasmar (Hoffman-La Roche, Inc). Co-investigator with Dr. Bala Manyam. May 1997–1998.
- 9. Metrifonate Investigational Nationwide Trial (MINT). Bayer Pharmaceutical. Sept. 1997-Sept. 1998.
- 10. Akinesia in patients with Parkinson disease and other parkinsonian illnesses. A \$10,000 gift from Harriss Malan and his late wife, Fannie Bell Roe Malan to Southern Illinois U. School of Medicine, 1998.

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11. The Genetics and Electrophysiologic Characteristics of Essential Tremor. \$20,000 per year, beginning August 1998. Spastic Paralysis Research Foundation of Kiwanis International, Illinois-Eastern Iowa District.

- 12. Global Parkinson Disease Study. February 1999.
- 13. Parkinson Disease Center Grant, National Parkinson Foundation Center of Excellence Funded by the Illinois Department of Public Health 7/00-7/05
- 14. A comparison of the efficacy and safety of topiramate versus placebo in the treatment of essential tremor: protocol CAPSS-149. Ortho-McNeil. March 2001-2004
- 15. Principal Investigator. Participating clinical center. Neuroprotection Exploratory Trials in Parkinson Disease (NET-PD). NIH (NINDS) 5U10 NS044450-02. March 2003-present
- 16. Principal Investigator. Participating center. Feasibility Study on the Characteristics of Parkinson's Disease Symptoms for the Planned Phase III Studies with Sarizotan (EMR 62 225). Merck KGaA. March 2004-June 2004.
- 17. Principal Investigator. Participating center. A double-blind, placebo controlled, multicenter, multinational Phase III study to evaluate the safety and efficacy of Sarizotan HCl 1mg bid in patients with Parkinson's disease suffering from treatment associated dyskinesias (PADDY-1). Merck KGaA. September 2004- June 2006.
- 18. Principal Investigator. Participating center. A 12-week, double-blind, placebo-controlled, randomized, parallel-group, multicenter, fixed dose-response study to evaluate the efficacy and safety of 10, 20 and 40 mg/d oral doses of KW-6002 (istradefylline) as treatment for Parkinson's disease in patients with motor response complications of levodopa/carbidopa therapy. Kyowa Pharmaceutical Inc. September 2004-October 2005.
- 19. Principal Investigator. Participating center. Levetiracetam (Keppra®) in the Treatment of Essential Tremor. A Multi-center, Double-Blind Randomized, Cross-over, Placebo-controlled Investigation. UCB Pharma. September 2004-October 2006.
- 20. Principal Investigator. Participating center. Evaluation of the Efficacy and Safety of ALTROPANE for Differentiating Parkinsonian Syndromes from Non-Parkinsonian Syndromes in Patients with Tremors. Boston Life Sciences, Inc. Nov. 2004- April 2006.
- 21. Principal Investigator. NIH scientific conference grant 1R13NS052017-01. Critical Research Issues in Essential Tremor. April 1, 2005 March 31, 2006.

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22. Principal Investigator. Participating center. An open-label, multicenter, multinational Phase III follow-up study to investigate the long-term safety and efficacy of Sarizotan HCl 1mg bid in patients with Parkinson's disease suffering from treatment-associated dyskinesia (PADDY-O). Merck KGaA. June 2005-January 2007.

- 23. Principal Investigator. Participating center. A phase 2, double-blind, placebo-controlled, randomized, parallel-group, multicenter study of the efficacy and safety of 40 mg/day of KW-6002 (istradefylline) as a monotherapy in subjects with Parkinson's disease. Kyowa Pharmaceutical Inc. May 2005- April 2007.
- 24. Principal Investigator. Participating center. A long-term, multicenter, open-label safety study with oral 20 or 40 mg/d doses of KW-6002 (istradefylline) as treatment for Parkinson's disease in patients with motor response complications on levodopa therapy. Kyowa Pharmaceutical Inc. July 2005- June 2006.
- 25. Principal Investigator. Participating center. A multi-center, double-blind, randomized start, placebo-controlled, parallel-group study to assess rasagiline as a disease modifying therapy in early Parkinson's disease patients. Teva Pharmaceutical. October 2005-2008
- 26. Principal Investigator. Participating center. Testing objective measures of motor impairment in early Parkinson's disease. Kinetics Foundation. September 2005-July 2007
- 27. Principal Investigator. Participating center. Clinimetric Studies of a New Scale for Parkinson's Disease. Movement Disorder Society. June 2006-March 2008.
- 28. Principal Investigator. Participating center. A multi-center, randomized, double-blind, placebo-controlled, parallel group study of the efficacy, safety and tolerability of E2007 in levodopa treated Parkinson's disease patients with motor fluctuations. Phase III. Eisai Study E2007-A001-302. May 2006-November 2008.
- 29. Principal Investigator. Participating center (Parkinson Study Group). A randomized, double-blind, active (pramipexole 0.5 mg tid) and placebo controlled, efficacy study of pramipexole given 0.5 mg and 0.75 mg bid over a 12-week treatment phase in early Parkinson's disease patients (PramiBID). Boehringer Ingelheim. October 2006 2008.
- 30. Principal Investigator. Participating center (NET-PD Study Group). A Multi-center, Double-Blind, parallel Group, Placebo Controlled Study of Creatine in Participants with Treated Parkinson's disease (PD). Large Study-1 (LS-1). NINDS. October 2006 2014.
- 31. Principal Investigator. Participating center. A Multi-Center, Placebo-Controlled, Double-Blind Trial To Examine the Safety and Efficacy of ACP-103 in the Treatment of Psychosis in Parkinson's Disease Protocol Number ACP-103-012. Study Phase IIb/III. ACADIA. July 2007-August 2008.

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32. Principal Investigator. Participating center. A Randomized, Double Blind, Placebo-Controlled, Crossover Study to Evaluate the Efficacy and Safety of Carisbamate in the Treatment of Essential Tremor. Protocol CARISEPY 2008; Phase II. Ortho-McNeil. July 2007-2008.

- 33. Principal Investigator. Participating center. Parkinson Disease Collaborative Study of Genetic Linkage A.K.A. Parkinson's Research: The Organized Genetics Initiative (PROGENI). NINDS. August 2008-November 2009.
- 34. Principal Investigator. Participating center. A multi-site, double-blind, randomized, placebo-controlled, crossover study of pregabalin (Lyrica, PGB) in the treatment of essential tremor (Version 2). Grant to MoveDocs from Pfizer. January 2009-2011.
- 35. Principal Investigator. Participating center. Validation of the TRG essential tremor rating scale (TETRAS). Grant to the Tremor Research Group from GlaxoSmithKlein. April 2009-December 2012.
- 36. Participating center. Platelet-Oriented Inhibition in New TIA and minor ischemic stroke Trial (POINT). NIH NINDS CRC study. November 2010-July 2011.
- 37. Principal Investigator. Participating center. Phytopharm CONFIDENT-PD. Phytopharm plc. March 2011-December 2012.
- 38. Principal Investigator. Participating center (NET-PD Study Group). A Multi-Center, Double-Blind, Placebo-Controlled Phase II Study of Pioglitazone in Early Parkinson's Disease (FS-ZONE). NINDS. May 2011-2013.
- 39. Principal Investigator. Participating center. A double-blind, randomized, placebo controlled study of the safety and efficacy of SYN115 as adjunctive therapy in levodopa-treated Parkinson's subjects with end of dose wearing off. Biotie Therapies. December 2011-August 2012

# SPECIAL EDUCATIONAL ACTIVITIES

# University Educational Programs (Southern Illinois U. School of Medicine):

Authored a case for the Post-Clerkship Examination, 1990

Established the Neurology Clerkship

Established a senior elective in the Alzheimer Center

Developed *Neurology Learning Center* web site for students and residents.

# **Doctoral Advisory Committees:**

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Steven Kane, Dept. Neurobiology, Washington U., St. Louis May 1985 to May 1989.

# National and International Educational and Research Programs:

Chair of scientific platform sessions:

American Academy of Neurology (1992, 1995)

Society for Neuroscience (1993)

Tremor: mechanisms and clinical aspects, Kiel, Germany (1997)

International Congress of Parkinson Disease and Movement Disorders

Session Chair,

Essential tremor: challenges and future strategies, Toronto (2011)

Tour Leader,

Guided poster tour: Essential Tremor, Toronto (2011)

Tour Leader,

Guided poster tour: Tremor, Dublin Ireland (2012)

Session Chair,

What is essential tremor? Dublin Ireland (2012)

Tour Leader.

Guided poster tour: Tremor, Berlin (2016)

Tour Leader,

Guided poster tour: Hyperkinetic movement disorders,

Vancouver (2017)

American Academy of Neurology Educational Programs:

Director and speaker, Motor Control Course, AAN Annual Meeting, 1995-1999

Invited speaker, Motor Control Course, AAN Annual Meeting 1992, 1994

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Invited speaker, Geriatric Neurology Course, AAN Annual Meeting, 1995

Invited speaker, Neurorehabilitation Course, AAN Annual Meeting, 1991

Invited speaker, Gait Disturbances in the Elderly Course, AAN Annual Meeting, 1991, 1993, 1994

Invited speaker, Motor Control, dinner seminar, AAN Annual Meeting, 1997

Invited speaker, Diagnosis and Treatment of Tremor, dinner seminar, AAN Annual Meeting, 2000-2003.

Director and speaker, Balance and Gait course, AAN Annual Meeting, 2006-2009

Invited speaker, Movement Disorders Therapy, AAN Annual Meeting, 2009

Invited speaker, Parkinson Disease and Movement Disorders Update, AAN Annual Meeting, 2013, 2014, 2015

American Academy of Neurology Continuing Medical Education:

Contributing author, <u>Continuum: Geriatric Neurology</u>, Jan. 1995-1996.

# **Organizing committees:**

<u>Tremor: mechanisms and clinical aspects</u>, Kiel Germany, July 11-12, 1997

<u>Consensus Conference on Essential tremor</u>, Washington DC, October 2005 (Conference director)

<u>1<sup>st</sup> International Congress on Gait and Mental Function</u>, Madrid, Spain, February 2006

Geneva-Springfield Alzheimer Conference, Geneva, April 2006

<u>Hong Kong-Springfield Alzheimer Conference</u>, Hong Kong, March 2008

Geneva-Springfield Alzheimer Conference, Geneva, March 2010

<u>Geneva-Springfield Alzheimer Conference</u>, Stockholm, May 2012

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Geneva-Springfield Alzheimer Conference, Geneva, March 2014

Essential Knowledge Gaps in the Field of Essential Tremor, NIH

Bethesda MD, May 2015

Athens-Springfield Alzheimer Conference, Athens, March 2016

**Board Examiner:** American Board of Psychiatry and Neurology (inactive)