



COLUMBIA UNIVERSITY

*College of Physicians
and Surgeons*

 **NewYork-Presbyterian**

1st International Tremor Congress

May 11 & 12, 2018



**International Parkinson and
Movement Disorder Society**

*Endorsed by the International
Parkinson and Movement
Disorder Society*



Course Directors

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Faculty

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Abstract submission guideline for 1st International Tremor Congress, 2018:

Abstracts of original work may be submitted for poster presentation. Work submitted early and work by trainees will receive special consideration.

Please carefully follow the instructions for abstract submission.*

Instructions

The abstract must be in the form of a Microsoft® Word Document (preferred) or in Adobe® portable document format (PDF) with the following specifications:

- One Page Only: 8.5"x11" with 1" margins on all sides.
- Font: Times New Roman, 12 point.
- Title: Centered, Bold, Title case.
- Authors: Centered. Last name followed by first and middle initials only (without comma or periods -- as on PubMed). Degree (MD, RN, RRT, PhD) may be included. Names separated by a comma with a period at the end (as on PubMed).
- Affiliation: Centered. Include Department(s), University/Hospital, City, State/Province. Use standard abbreviations where applicable.
- Abstract: Include four sections: Introduction, Methods, Results, and Conclusions. Case reports should include three sections: Introduction, Report, and Conclusion. Start each section on a different line with the title in boldface followed by a semicolon. There is a maximal 300 words per abstract.

Submissions that do not strictly conform to these specifications will be rejected.

Abstracts will not be reformatted before printing/publication. Please minimize the use of special fonts, characters, and extraneous formatting. If formatting problems are likely but unavoidable, submit a properly formatted PDF copy.

Submit abstracts as an attachment to: cme@columbia.edu

Abstracts must be received by March 1, 2018, 5PM EDT.

** Please note that previously published abstracts may be submitted for consideration.*

May 11, 2018

8:20 a.m. *Registration; Continental Breakfast*

8:55 a.m. Welcome: 1st Tremor Congress: Focus on Circuitry
Sheng-Han Kuo, M.D.

Session 1: Tremor Overview
Moderator: Sheng-Han Kuo, M.D.

9:00 a.m. Tremor Research: From Phenomenology to Circuitry
Stanley Fahn, M.D.

9:30 a.m. Overview of Brain Circuitry of Tremor
Mark Hallett, M.D.

Session 2: Synaptic Organization of the Cerebellum in Tremor
Moderator: Elan D. Louis, M.D., M.S.

10:00 a.m. Climbing Fiber Synaptic Organization in Tremor
Sheng-Han Kuo, M.D.

10:30 a.m. Physiological Alterations in Tremor from Abnormal
Synaptic Organization
Ming-Kai Pan, M.D., Ph.D.

11:00 a.m. *Refreshment Break*

Session 3: Axonal Re-organization of the Cerebellum in Tremor
Moderator: Un Jung Kang, M.D.

11:20 a.m. Purkinje Cell Axonal Pathology of Essential Tremor
Phyllis Faust, M.D., Ph.D.

11:50 a.m. Circuitry Re-organization in the Presence of Purkinje Cell
Axonal Pathology
Elan D. Louis, M.D., M.S.

12:20 p.m. Altered Physiology in Deep Cerebellar Nuclei in Tremor
Stefan Pulst, M.D.

12:50 p.m. *Lunch*

Session 4: Network Alterations in Tremor
Moderator: Ming-Kai Pan, M.D., Ph.D.

2:00 p.m. Cerebellar Circuitry and Tremor
Mario Manto, M.D., Ph.D.

2:30 p.m. Neuroimaging for Network Re-organization in Essential Tremor
David E. Valliancourt, Ph.D.

3:00 p.m. Brain Network Alterations in Parkinson's Tremor
Rick C.G. Helmich, M.D., Ph.D.

3:30 p.m. Brain Modulations to Probe Tremor Circuitry
Hayriye Cagnan, Ph.D.

4:00 p.m. *Refreshment Break*

Session 5: Tremor Research
Moderator: Phyllis L. Faust, M.D., Ph.D.

4:30 p.m. Tremor Research: NIH Perspective
Daofen Chen, Ph.D.

4:50 p.m. Genetics for Essential Tremor:
How Do Genetic Mutations Influence the Circuitry
Lorraine Clark, Ph.D.

5:20 p.m. Poster Session (Non-CME Session)

7:00 p.m. *Adjourn*

May 12, 2018

8:00 a.m. *Registration; Continental Breakfast*

Session 6: Novel Treatment and Device for Tremor
Moderator: Nora Vanegas-Arroyave, M.D.

9:00 a.m. Emerging Medical and Surgical Treatment of Tremor
William G. Ondo, M.D.

9:30 a.m. Deep Brain Stimulation for the Treatment of Tremor:
New Target and Controversy
Sameer Sheth, M.D., Ph.D.

10:00 a.m. Botulinum Toxin Therapy for Tremor
Joseph Jankovic, M.D.

10:30 a.m. Wearable Device for Tremor
Rodger J. Elble, M.D., Ph.D.

Session 7: Tremor Video Rounds

11:00 a.m. Video Rounds Moderators
Sheng-Han Kuo, M.D. & Elan D. Louis, M.D., M.S.

12:30 p.m. *Adjourn*

Accreditation Statement

The College of Physicians and Surgeons of Columbia University is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

AMA Credit Designation Statement

The College of Physicians and Surgeons designates this live activity for a maximum of 10.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Program Description & Objectives

Tremor is the most common movement disorders and could be highly disabling. Despite recent advancements in the diagnosis and management, patients with tremor continue to live with tremor-related disability. Current technology has created an opportunity for new diagnostic approaches, surgical procedures, and pharmacologic innovations, which holds promise for treatment of tremor. In addition, the understanding of abnormalities of brain circuitry for tremor will guide us for the development of targeted therapy. Taken together, these advances in the clinical diagnosis and patient management and also the basic science of brain circuitry of tremor will synergistically bring us to the forefront of therapy development for tremor.

In addition, there are several tremor disorders. Essential tremor (ET) is characterized by kinetic tremor whereas Parkinson's disease (PD) tremor is classically tremor at rest. Dystonia tremor (DT) is less rhythmic and is usually associated with sustained muscle twisting movements. Tardive tremor is associated with anti-psychotic use and is part of the tardive syndrome. Therefore, the accurate diagnosis of tremor disorder also poses challenges to neurologists and movement disorders specialists. Neurologists must stay up-to-date on advances in all aspects of patient care, but, unfortunately, many rely on what they learned in medical school or residency.

Given these important challenges in the field, a need to bring together movement disorders specialists who diagnose and manage tremor patients and also basic scientists who study the abnormal brain circuits of tremor is critically important to advance the field. In other words, there is a knowledge gap among movement disorders clinicians in the understanding the brain circuitry of tremor and among basic scientists in the current diagnosis and management of clinical tremor disorders. Furthermore, recent surgical therapies and neuromodulations are developed for tremor disorders but is not well-known among the clinicians and scientists. In addition, there is a need to educate the next-generation clinicians and scientists in the knowledge of tremor.

To address these gaps, the Movement Disorders Division within the Department of Neurology of the College of Physicians & Surgeons of Columbia University will be conducting 1st International Tremor Congress, a comprehensive meeting on advances



in the diagnosis and management of tremor and also the science of tremor disorders. The meeting addresses an important need for a comprehensive, academic educational program providing the latest information on innovations, insights on the latest science, and translation of the science to patient care. The conference is also consistent with the national call of the Precision Medicine Initiative for health care providers to pursue new approaches that tailor treatment to the individual patient's characteristics. Patient response to conventional treatments for tremor is often variable; therefore, education on new surgical and medical advancements that account for individual differences can optimize outcomes for patients with tremor.

At the conclusion of this activity, participants will be better able to:

- Formulate an evidence-based approach to optimize the treatment for tremor disorders.
- Develop evidence-based scientific knowledge for the future clinical study design in tremor disorders.
- Describe the up-do-date clinical diagnosis and treatment in each tremor disorder.
- Indicate the cutting-edge scientific discovery for tremor and also current tremor therapy development.

Meeting Location

Roy and Diana Vagelos Education Center
104 Haven Avenue
New York, New York 10032

Parking is available at the NewYork-Presbyterian/Columbia University Medical Center parking lot, located on the southwest corner of Fort Washington Avenue and West 165th Street.

Registration Fee

Registration Fee: \$100; Residents and Fellows, Graduate Students and Postdoctoral Fellows: Free (limited spots available). The fee includes the plenary presentations, continental breakfasts, lunches, refreshment breaks and an electronic course syllabus. Confirmation of registration will be sent upon receipt of the registration form. Refund of registration fee will be made if written notice of cancellation is received by **May 1, 2018**. No refunds can be made thereafter.

Registration

Space is Limited. Early Registration is Encouraged.

BY MAIL

Complete the registration form and mail with full payment to:

Columbia University
College of Physicians & Surgeons
Center for Continuing Medical Education
630 West 168th Street, Unit 39, New York, NY 10032

ON-LINE

www.columbiacme.org

Telephone registrations and/or cancellations are not accepted.

Americans with Disabilities Act

The Columbia University College of Physicians and Surgeons fully complies with the legal requirements of the ADA and the rules and regulations thereof. Any participant with special needs must submit a written request to our office at least one month prior to the course date.

Additional Information

Contact: Center for Continuing Medical Education
Columbia University
College of Physicians & Surgeons
630 West 168th Street, Unit 39
New York, NY 10032
Telephone: (212) 305-3334
Fax: (212) 305-5740
e-mail: cme@columbia.edu
www.columbiacme.org

Registration

Online registration is available at www.columbiacme.org with credit card payment. American Express, MasterCard and Visa only.

Registration Form

(Please print or type)

Last Name		Degree
First Name		Middle Initial
Address		
City	State	Zip
Daytime Phone		Daytime Fax
e-mail		

Please note: Your e-mail address is used for critical information about the course including: registration confirmation, course evaluation and certificate. Please be sure to include an e-mail address you check daily or frequently

Institution
Specialty Area of Interest

Neurology PM 90
May 11 & 12, 2018
UR002715/10.0

- ☐ \$100 Registration fee
- ☐ Free Residents and Fellows, Graduate Students and Postdoctoral Fellows (limited spots available)

☐ Enclosed is a check or money order made payable to **Columbia University.**
Checks must be in U.S. Dollars drawn on a U.S. bank.
Money orders must be in U.S. Dollars.



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