



International Federation of
CLINICAL NEUROPHYSIOLOGY

Современная международная клиническая нейрофизиология: перспективы международного сотрудничества

Лытаев С.А.

*Санкт-Петербургский государственный
педиатрический медицинский университет*

*International Federation of Clinical
Neurophysiology*

Санкт-Петербург, 31 мая 2019 г.





СОДЕРЖАНИЕ

- 1. Структура международной федерации клинической нейрофизиологии**
- 2. Современные научно-практические направления клинической нейрофизиологии**
- 3. Возможности для международного сотрудничества**
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31st International Congress of Clinical Neurophysiology of the IFCN

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Welcome

The American Clinical Neurophysiology Society (ACNS) and the Canadian Society of Clinical Neurophysiologists (CSCN) are pleased to announce the 31st International Congress of Clinical Neurophysiology (ICCN) of the International Federation of Clinical Neurophysiology (IFCN) will be held May 1-6, 2018 in Washington, DC, USA.

The 31st ICCN program will include several of ACNS's signature courses, as well as courses and workshops planned by IFCN Member Societies and other prominent societies in clinical neurophysiology from the US and around the world.

Pre-Congress courses and workshops are designed to provide a solid review of the fundamentals and the latest scientific advances in both central and peripheral clinical neurophysiology.

Three days of general and concurrent Congress sessions will follow including honorary lectures, symposia, platform presentations, controversy sessions, and industry-supported satellite symposia.

ACNS and CSCN are honored to co-host ICCN 2018 and to welcome colleagues to Washington, DC!

Important Dates

May 1-6, 2018

31st International Congress of Clinical Neurophysiology of the International Federation of Clinical Neurophysiology; Washington, DC

2022

32nd International Congress of Clinical Neurophysiology
Hosted by the Australian and New Zealand Association of Neurologists (ANZAN)
Melbourne, Australia

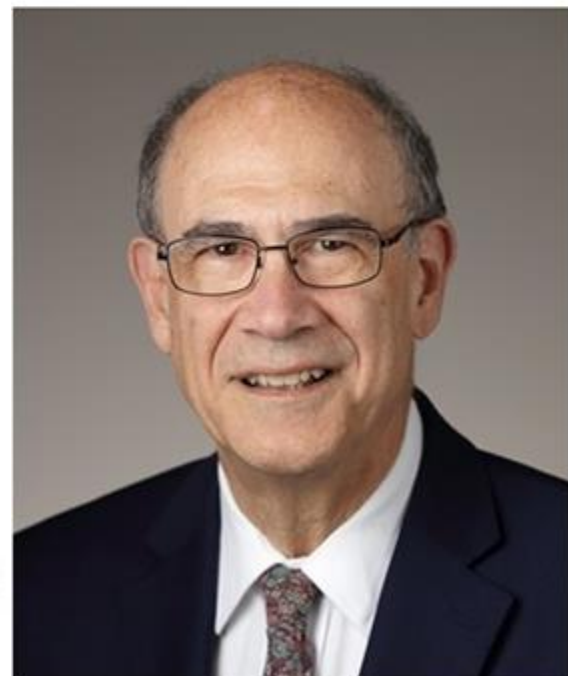


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31st International Congress of Clinical Neurophysiology of the IFCN





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Member Societies

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Austria

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Russia
Last Update: Sep 24, 2018

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**ИВАНИЦКИЙ Алексей
Михайлович – национальный
делегат в IFCN, 1970-е – 1990-е
гг. Член-корреспондент РАН**



**СТРЕЛЕЦ Валерия Борисовна –
национальный делегат в IFCN,
1990-е – январь 2018 гг. д.м.н.,
профессор**



Нейрофизиология нарушений ионных каналов:

- **невропатии**
- **эпилепсия на фоне противосудорожных средств**
- **натриевые каналы в скелетных мышцах и ГОЛОВНОМ МОЗГЕ**

Нейромышечные и вегетативные расстройства:

- механизмы мышечной усталости
- моторный блок
- патогенез бокового амиотрофического склероза
- иммунные периферические невропатии
- нейрофизиологические особенности миелопатии
- автономные (вегетативные) невропатии

Боль и парестезии:

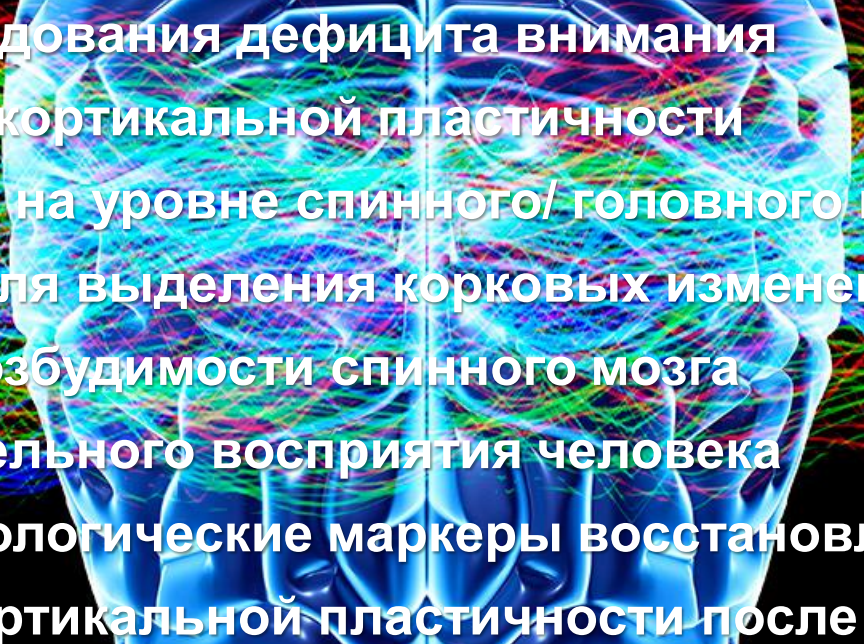
- методы исследования боли при невропатии**
- нейрофизиологическая оценка боли**
- патофизиология парэстезии**
- нейровизуализация боли человека**
- моделирование виртуальных сенсорных ощущений**
- обработка боли в ЦНС**



Нарушения сна:

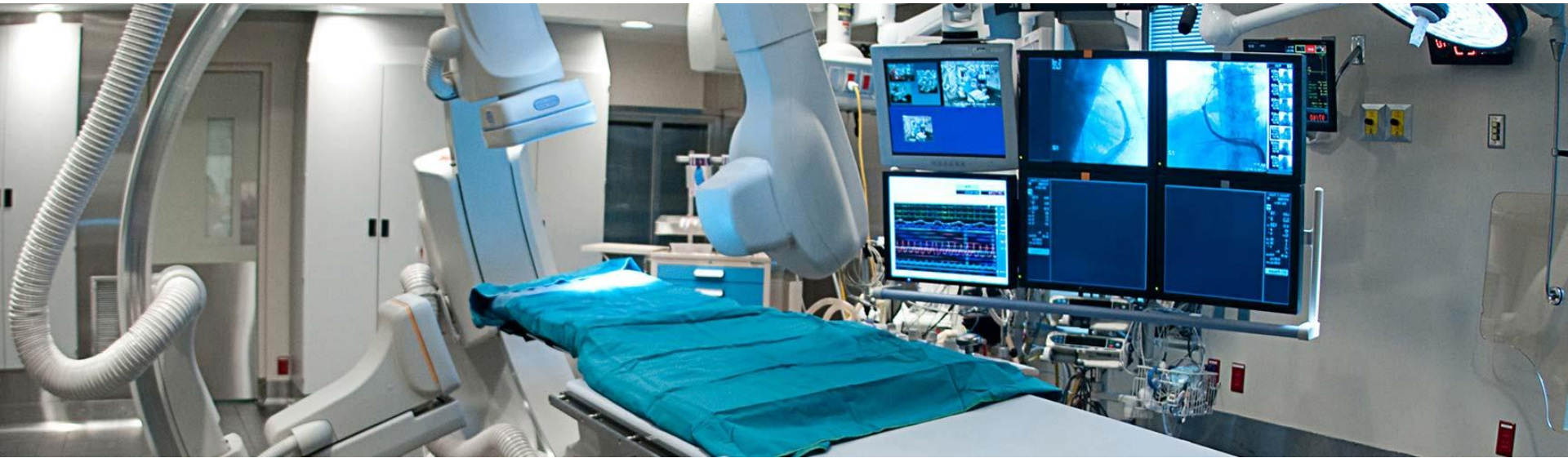
- повышенная дневная сонливость
- синдром апноэ во сне
- высокие неврологические факторы риска

Транскраниальная магнитная стимуляция:

- ТМС исследования дефицита внимания
 - модуляция кортикальной пластичности
 - стимуляция на уровне спинного/ головного мозга, как инструмент для выделения корковых изменений от изменений возбудимости спинного мозга
 - время зрительного восприятия человека
 - нейрофизиологические маркеры восстановления функций и кортикальной пластичности после инсульта
- 

Внимание, сознание и когнитивные расстройства:

- нейрофизиологические инструменты изучения зрительного восприятия
- количественная ЭЭГ в диагностике деменции
- источники активности ЭЭГ при активации рабочей памяти у взрослых и детей
- количественная ЭЭГ в моделировании времени, пространства и фазы колебательной активности мозга
- подсознательная обработка слуховой информации в коме
- P300 и сознательное восприятие



Интраоперационный нейрофизиологический мониторинг:

- динамика ЭЭГ и глубина анестезии**
- эффекты анестезии и вызванные потенциалы**
- мониторинг спинного мозга и спинномозговых нервов**

**Нейровизуализация как инструмент для
понимания функции мозга:**

– фМРТ,

– ПЭТ,

– потенциалы, связанные с событием

– методы локализации диполей



Контроль двигательных функций и ЭЭГ-ЭМГ когерентность:

- математические принципы и физиологические основы применения анализа когерентности
- когерентность ЭЭГ-ЭМГ при двигательных нарушениях
- клиническая нейрофизиология тиков
- механизмы глубокой стимуляции мозга
- ТМС при эпилепсии и болезни Паркинсона

Нейрофизиология осцилляций (колебаний):

- болезнь Паркинсона
- шизофрения
- нейромодуляция колебательных систем гамма-диапазона мозга

ЭЭГ и эпилепсия:

- вейвлет-анализ, предшествующий судорогам**
- рефлекторная эпилепсия**
- нейрофизиология доброкачественных очагов детской эпилепсии**

Вестибулярная система:

- вестибуло-спинальная нейрофизиология**
- нейрофизиологическая оценка цервико-окулярного рефлекса при центральных и периферических вестибулярных синдромах**

Conclusion

- All the tools of Clinical Neurophysiology have been used to make progress:
 - EMG
 - Reflex studies
 - Transcranial magnetic stimulation
 - Somatosensory evoked potentials
 - EEG
 - Functional magnetic resonance imaging
 - Brain stimulation therapy



- SCHOLARSHIP WINNERS 2018
- VISITING PROFESSOR PROGRAM
- YOUNG INVESTIGATOR PAPER AWARDS CLINICAL NEUROPHYSIOLOGY
- IFCN FELLOWSHIPS & AWARDS
- MEETING SUPPORT

Education and Attainment of the
Level of Knowledge and Understanding
neurophysiology

International Federation of Clinical Neurophysiology (IFCN)
has member societies in 62 countries. The main goal of the
IFCN is to promote education and the highest level of practice
of Clinical Neurophysiology to improve health.

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IFCN Fellowships & Awards

IFCN ExCo Awards

Young Investigator Awards



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Visiting Professor Program

**Promoting Education and Attainment of the
Highest Level of Knowledge and Understanding
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Positions Available



Special Interest Groups

Promoting Education and Attainment of the Highest Level of Knowledge and Understanding of Clinical Neurophysiology

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The IFCN has a number of Special Interest Groups including:

- [Noninvasive Brain Stimulation \(NBS\) Techniques](#)
- [Brainstem \(BSS\)](#)
- [Education](#)
- [Broadening the Scope of Electrodiagnostic Practice: The Emerging Role of Ultrasound](#)
- [Continuous EEG](#)
- [Neurophysiologic Interoperative Monitoring](#)



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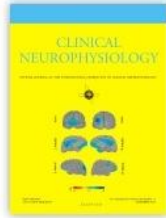
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Young Investigator Paper Awards Clinical Neurophysiology

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Clinical Neurophysiology

Official Organ of the International Federation of Clinical Neurophysiology, the Brazilian Society of Clinical Neurophysiology, the Czech Society of Clinical Neurophysiology, the Italian Clinical Neurophysiology Society, and the International Society of Intraoperative Neurophysiology.

Editor-in-Chief: [Prof. Ulf Ziemann](#)

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SCOPE OF THE JOURNAL

Clinical Neurophysiology is dedicated to fostering research and publishing scholarly reports on the **pathophysiology** underlying diseases of the peripheral and central nervous system of human patients. Clinical trials that use **neurophysiological** measures to document change or neurophysiological...

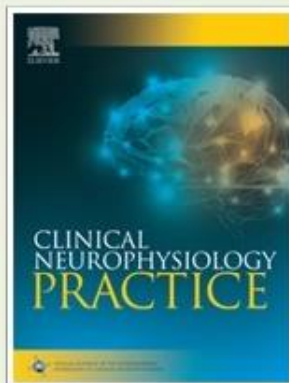
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"Dear Colleagues,

I am delighted to announce that *Clinical Neurophysiology Practice (CNP)* is now indexed in PubMed Central, and that articles already published back to issue 1, page 1 have been indexed.

This new Open Access journal addresses the broad field of clinical neurophysiology, with a focus on issues of importance in clinical practice. It thus helps address the educational mission of IFCN, complementing our research-orientated journal, *Clinical Neurophysiology*, which continues under incoming Editor-in-Chief, Professor Ulf Ziemann.

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Current Issue-in-Progress **2018**
Volume 3

Issue Highlights

Standardization of the Jendrassik maneuver in Achilles tendon tap reflex

Lale A. Ertuglu, Ilhan Karacan, Gizem Yilmaz, Kemal S. Türker

Clinical Neurophysiology Practice, Vol. 3, p1-5

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Large fasciculation can clinically manifest as spinal myoclonus; electromyographic and dynamic coherence studies of frequency with motor neuron

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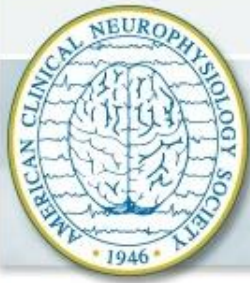
Call for Papers

Authors are requested to submit their articles via the online submission system at <http://ees.elsevier.com/cnp>. Please note that *Clinical Neurophysiology Practice (CNP)* is covered by PubMed Central (PMC) but does not yet have an impact factor. However all articles are open access and widely available via the journal website and Science Direct.

All articles submitted are peer reviewed and if accepted for publication, authors are notified of this decision and requested to pay an [Article Processing Fee](#)

About *Clinical Neurophysiology Practice*

Clinical Neurophysiology Practice (CNP) will focus on clinical practice issues in clinical neurophysiology including relevant new research, case reports or clinical series, normal values and didactic reviews.



AMERICAN CLINICAL NEUROPHYSIOLOGY SOCIETY

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ICCN 2018

2017 Annual Meeting and Courses

2016 Annual Meeting and Courses

2015 Annual Meeting and Courses

2014 Annual Meeting and Courses

2013 Annual Meeting and Courses



2019 Annual Meeting and Courses

The ACNS Program Committee is accepting poster abstract submissions now through November 15. The complete Call for Poster Abstracts is available now on the [Annual Meeting & Courses](#) section of the ACNS website.

Poster abstracts must be submitted through the online abstract submission site.

Several Young Investigator Travel Awards are also available in the form of \$1,000 travel stipends. For complete information, visit the "[Call for Poster Abstracts](#)" at www.acns.org

Membership in ACNS is not required for poster abstract submission, but membership is required to be eligible for the Young Investigator Travel Awards.

[Download the Preliminary Program](#)

17th European Congress of Clinical
Neurophysiology
Warsaw 5-8 June 2019

Welcome

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DE **14** AGOSTO
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**Inscrições abertas, aproveite
os descontos do primeiro prazo:
até 11/03/2019**





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**Благодарю за Ваше
внимание!**

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International Federation of CLINICAL NEUROPHYSIOLOGY

Russia

Last Update: Sep 24, 2018

I.P. Pavlov Russian Physiological Society

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