



UMF
IULIU HATIEGANU
UNIVERSITY OF
MEDICINE AND PHARMACY
CLUJ-NAPOCA



FACULTY of MEDICINE
DEPARTMENT of
NEUROSCIENCES



Seminars

Department of Neurosciences
University of Medicine and
Pharmacy "Iuliu Hatieganu"
Cluj-Napoca | Romania

IN CONJUNCTION WITH
**SECOND NEUROSONOLOGY
TEACHING COURSE**

NOVEMBER 24th-26th, 2014

"RONEURO"
INSTITUTE FOR NEUROLOGICAL RESEARCH AND DIAGNOSTIC
37 Mircea Eliade Street, Cluj-Napoca, Romania

WELCOME ADDRESS

It is a pleasure to welcome you to the 20th edition Seminars of the Neurosciences Department, in conjunction with Second Neurosonology Teaching Course, 24th-26th November, 2014. The seminar is hosted by the Department of Neurosciences, Faculty of Medicine, "Iuliu Hatieganu" University of Medicine and Pharmacy, Cluj-Napoca and "RoNeuro" Institute of Neurological Disorders Research and Diagnosis.

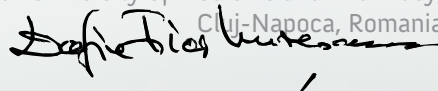
This seminar aims to establish itself as a highly useful framework that will enable local specialists to benefit from the expertise of our invited speakers who are part of associated international faculty of our Department of Neurosciences Cluj-Napoca, Romania and RoNeuro Science network. Our scope is to flourish over years and set up an educational vector aiming to meet our junior and senior specialists' needs.

In contrast to large international conferences, the intention behind these seminars is to create an informal and intimate setting, which hopefully will stimulate open discussions. As organizers, we would therefore be deeply grateful if you participate and share your time with us.

We are looking forward to your active participation in this educational event!

With consideration,

Prof. Dr. DaŃin F. Mureşanu,
Chairman Department of Neurosciences, Faculty of Medicine,
"Iuliu Hatieganu" University of Medicine and Pharmacy,
Cluj-Napoca, Romania





ORGANIZERS



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RONEURO
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FOUNDATION FOR THE STUDY
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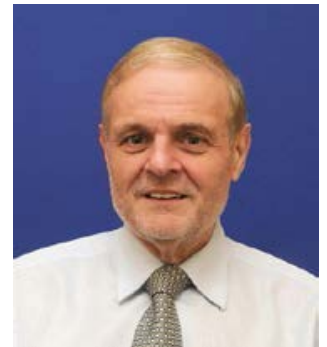


SPEAKER



SPEAKER

Natan Bornstein /Israel



EDUCATION

1970-73 - University of Sienna, Medicine, Sienna, Italy

1973-79 - Technion Medical School, Haifa, Medicine, MD, 1979

Date of receiving specialisation certificate: 11 September, 1984

Title of Doctoral dissertation: Dextran 40 in acute ischemic stroke

Name of Supervisor: Dr. Jacob Vardi

FURTHER EDUCATION

1978-83 - Tel-Aviv University, Sackler Faculty of Medicine, neurology (residence),
Israeli Board certified in Neurology, 1983

1979-83 - Tel-Aviv University, Sackler Faculty of Medicine, Post graduate studies in
Neurology

1984-87 - Sunnybrook Medical Center, University of Toronto, M.R.C stroke,
Fellowship

ACADEMIC AND PROFESSIONAL EXPERIENCE

1982-1995 - Tel-Aviv University, Neurology, instructor

1991-present - European stroke Conference (ESC), Executive committee

1995-1999 - Tel-Aviv University, Neurology, Senior lecturer

1995 - Eliprotil CVD 715 clinical trial, Steering Committee

1995-1997 - International Stroke Study (IST), Steering Committee

1995-1999 - American Academy of Neurology, Member of the International Affairs
Committee

1996 - Asymptomatic Carotid Stenosis and Risk of Stroke (ACSRS),
Advisory Committee

1996-present - The Mediterranean Stroke Society (MSS), President

1996-2002 - EFNS, Management Committee

1997-2009 - Israeli Neurological Association, Secretary

1999-present - Tel-Aviv University, Neurology, Associated Professor

2001-present - European Society Neurosonology and Cerebral Hemodynamics
(ESNCH) Executive committee

2005-present- Neurosonology Research Group, Executive committee

2006-present - European Master in Stroke Medicine, Member of faculty

2006-2008 - NEST II clinical Trial, Steering Committee

2006-present - SENTIS clinical Trial, Steering Committee

2006-present - CASTA Trial, Steering Committee

- 2006-present - Brainsgate clinical Trial, Steering Committee
- 2008-present - World Stroke Association (WSO), Vice president
- 2009-present - Israeli Neurological Association, Chairman
- 2009-present - European Stroke Organization (ESO), Member on the board of directors
- 2010- NEST III clinical Trial, Steering Committee

PROFESSIONAL ACHIEVEMENTS- EDITORIAL BOARD

- 1991-present - Neurological Research Journal, Guest Editor
- 1991-present - STROKE, Member of the editorial board
- 1998-present - European Journal of Neurology, Member of the editorial board
- 1999-present- Journal of Cerebrovascular disease, Member of the editorial board
- 2000-present- Journal of Annals of Medical Science, Consulting Editor
- 2001-present - Journal of Neurological Science (Turkish), Member of the editorial board
- 2001-present - Acta Clinica Croatica, Member of the editorial Council
- 2003-present - Italian Heart Journal, International Scientific Board
- 2003-present - Journal of Neurological Sciences, Guest Editor
- 2004-present - Turkish Journal of Neurology, International Advisory Board
- 2005-present - Archives of Medical Sciences (AMS), Member of the Editorial Board
- 2006-present - Journal of Cardiovascular Medicine, International Scientific Board
- 2006-present - International Journal of Stroke, Editorial Board
- 2006-present - Acta Neurologica Scandinavica, Editorial Board
- 2009-present - American Journal of Neuroprotection& Neurogeneration (AJNN)
Member of the Editorial Board
- 2010 - Neurosonology, International Editorial Board
- 2010 - Frontiers in Stroke, Review Editor

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- 1977-present - Israeli Medical Association
- 1983-present - The Israeli Neurological Association
- 1985-present - Stroke Council of the American Heart Association (Fellow)
- 1986-present - American Academy of Neurology
- 1986-present - Neurosonology Research Group of the World Federation of Neurology
- 1987-present - Stroke Research Group of the World Federation of Neurology
- 1990-2008 - International Stroke Society
- 1995-2008 - European Stroke Council
- 1995-present - Mediterranean Stroke Society (MSS)
- 1998-present - European Neurosonology Society
- 2005-present - World Stroke Organization (WSO)
- 2008-present - Fellow of the European Stroke organization (FESO)

Lorenz Sigal /Israel

Lorenz Sigal graduated from Tel Aviv College of Biotechnology in 1989 (1987-1989).

After graduation, she did the internship in the Doppler Laboratory at the Tel Aviv Medical Center with prof. Natan Bornstein, from 1989 to 1990.

Since 1992, is attending the annual meeting of the ESNCH. Currently she is involved in many clinical research projects, both national and international. She is specialized in extracranial and intracranial Doppler studies (duplex, Tcd, Tccd).

Since 1989, Lorenz Sigal is working in the Doppler Laboratory at the Tel Aviv Medical Center headed by prof. Natan Bornstein.



SCIENTIFIC PROGRAM



SCIENTIFIC PROGRAM

MONDAY, 24TH NOVEMBER, 2014

10:00–12:00 EXTRACRANIAL CAROTID ARTERIES - BASIC MEASUREMENTS OF CAROTID STENOSIS AND PLAQUE USEFULNESS OF VASOMOTOR REACTIVITY (VMR) IN CLINICAL PRACTICE.
/Natan Bornstein (Israel)

12:00–13:30 HANDS ON (PART 1) - CAROTID DUPLEX
/Sigal Lorenz (Israel)

13:30–14:30 LUNCH

14:30 - 16:00 IMT & PFO
/Natan Bornstein (Israel)

16:00 - 17:30 TCD
/Natan Bornstein (Israel)

17:30 - 18:30 HANDS ON (PART 2) - CAROTID & VERTEBRAL ARTERIES
/Sigal Lorenz (Israel)



SCIENTIFIC PROGRAM

TUESDAY, 25TH NOVEMBER, 2014

10:00–13:00 HANDS ON (PART 3)
/Sigal Lorenz (Israel)

13:00–14:00 LUNCH

14:00 - 17:00 HANDS ON (PART 4)
INTRACRANIAL MCA/ACA / PCA & BASILAR ARTERIES
PATHOLOGIES MONITORING WITH ULTRASOUND
/Sigal Lorenz (Israel)

WEDNESDAY, 26TH NOVEMBER, 2014

10:00 - 13:00 HANDS ON (PART 5)
/Sigal Lorenz (Israel)

13:00–14:00 LUNCH

14:00 - 17:00 HANDS ON (PART 6)
/Sigal Lorenz (Israel)

ABSTRACT



SECOND NEUROSONOLOGY TEACHING COURSE

After the first Neurosonology teaching course- that was dedicated to the introduction in exploration of cervico-cerebral circulation using ultrasound- the cervical vessels ultrasound imaging, transcranial Doppler (TCD), transcranial color-coded duplex ultrasonography (TCCD) –the ongoing training is designed in a series of practical sessions. The participants will learn how to follow a detailed ultrasound examination protocol for about 10 patients with different cerebrovascular diseases.

Thus, the students will participate to the hands on session supervised by Prof. Dr. Natan Bornstein and his assistant Sigal Lorenz. They will examine the patients tracking the following parameters: the macroscopic appearance of plaques as well as blood flow characteristics in the carotid arteries, the measurement of Intima-media thickness (IMT), measuring the degree of carotid artery stenosis (the European Carotid Surgery Trial (ECST) method and the North American Symptomatic Carotid Endarterectomy Trial (NASCET) method) or vertebral artery stenosis. Also, they will evaluate direct and indirect signs of carotid artery stenosis, carotid artery occlusion and intracranial artery stenosis. In the theoretical sessions Prof. Bornstein will speak about the advantages and disadvantages of Carotid Duplex Ultrasonography in measuring the degree of carotid artery stenosis, the usefulness of TCD in etiological evaluation of ischemic stroke (observing the presence of patent foramen ovale using microembolic signals detection) or the importance of TCD in vasospasm evaluation for subarachnoid hemorrhage. It will also be presented the importance of cerebral vasomotor reactivity (CVR) in clinical practice, useful for detecting the altered cerebral hemodynamics in different carotid system diseases and for selecting candidates for revascularization procedures. One objective of this theoretical part is to provide confirmed evidence based informations and perspectives on sonothrombolysis for treatment of acute ischemic stroke.

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“RoNeuro”

Institute for Neurological Research and Diagnostic,
Cluj-Napoca, Romania

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