



**UMF**  
UNIVERSITATEA DE  
MEDICINĂ ȘI FARMACIE  
IULIU HAȚIEGANU  
CLUJ-NAPOCA



FACULTY of MEDICINE  
DEPARTMENT of  
NEUROSCIENCES



THE SOCIETY FOR THE STUDY OF  
NEUROPROTECTION AND  
NEUROPLASTICITY



International  
School of Neurology



Danube-University  
Krems



Romanian Academy  
of Medical Sciences

# Advances in Neuroepidemiology

## Seminars

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

**FEBRUARY 13, 2014**  
**"Cornel Oprisiu" Auditorium / UMF "Iuliu Hațieganu"**  
**CLUJ-NAPOCA | ROMANIA**

**FEBRUARY 14, 2014**  
**"Multimedia" Auditorium / UMF "Iuliu Hațieganu"**  
**CLUJ-NAPOCA | ROMANIA**



# Welcome Address

It is a pleasure to welcome you on the 13<sup>th</sup>-14<sup>th</sup> of February 2014 to the 10th edition Seminars of the Neurosciences Department, Faculty of Medicine, University of Medicine and Pharmacy "Iuliu Hatieganu" Cluj-Napoca.

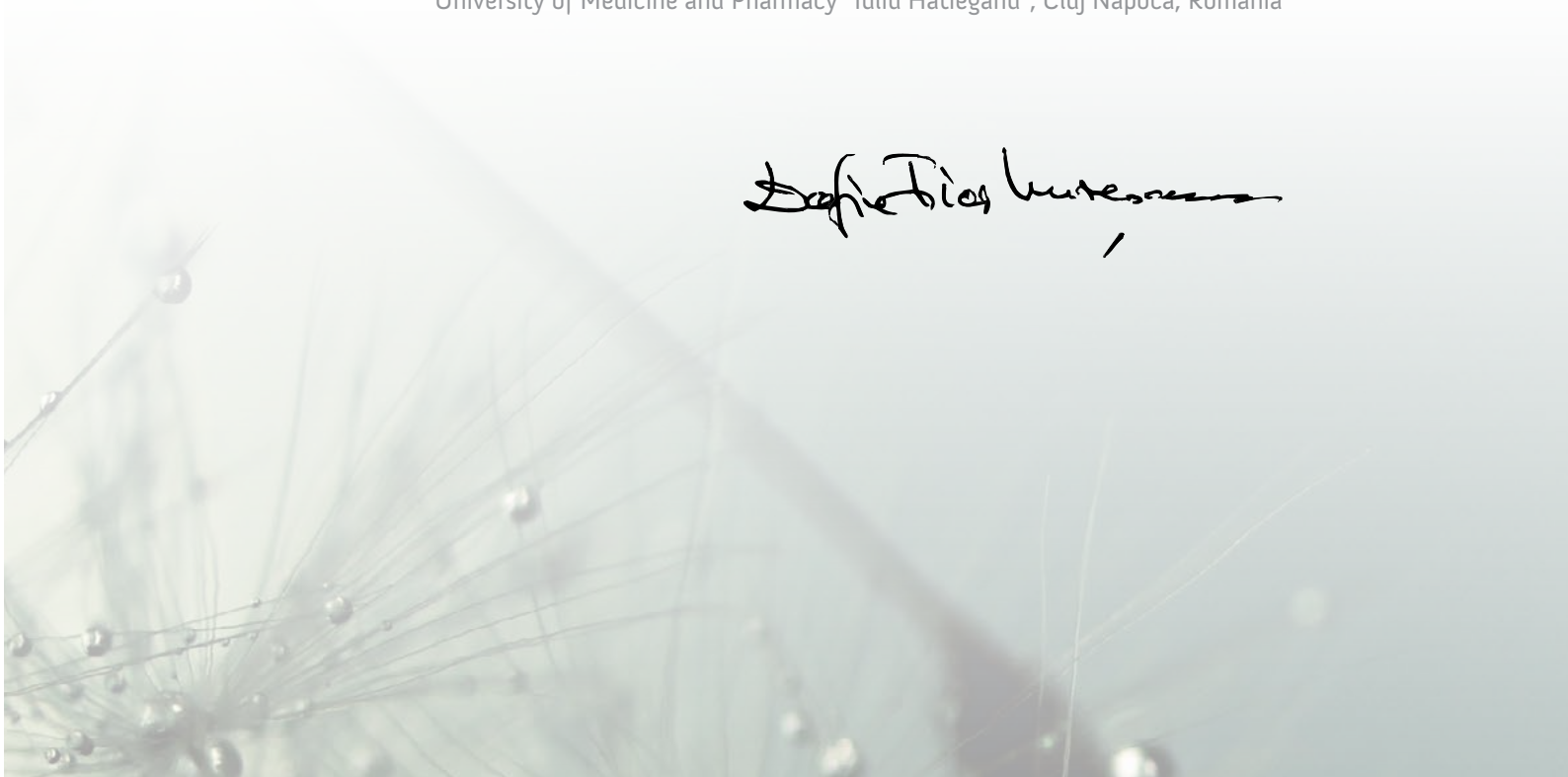

These seminars aim to establish a highly useful framework enabling local specialists to benefit from the expertise of our invited speakers who are part of associated international faculty of our Department of Neurosciences. Our goal is to flourish over years and set up an educational network tool meeting 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,  
University of Medicine and Pharmacy "Iuliu Hatieganu", Cluj Napoca, Romania



# Organizers



**UMF**  
IULIU HAȚIEGANU  
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University of Medicine and Pharmacy  
"Iuliu Hatieganu", Cluj Napoca, Romania  
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**Științe Medicale**  
**din România**

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# Speakers

Muresanu Fior Dafin, MD, PhD, MBA, FANA, is the President of the Romanian Society of Neurology, Professor of Neurology, Chairman of the Neurosciences Department, University of Medicine and Pharmacy "Iuliu Hatieganu" Cluj-Napoca, member of the Academy of Medical Sciences, Romania. He also acts as the President of the Society for the Study of Neuroprotection and Neuroplasticity. In these roles, he is involved as member of the faculty in international educational programs of European Master (i.e. European Master in Stroke Medicine, University of Krems), organizer and co-organizer of European and international schools and courses (International School of Neurology, European Stroke Organisation Summer School, Danubian Neurological Society Teaching Courses). His activity includes involvement in many clinical studies and research projects, memberships in the executive board of many national and international societies, participations as invited speaker in national and international congresses, a significant portfolio of scientific articles (77 papers indexed on Web of Knowledge-ISI) as well as contributions in monographs and books published by prestigious international publishing houses. In the last 7 years, he was also invited as speaker in over 200 scientific events both national and abroad. Prof. Dr. Muresanu has been honoured with the Faculty of Medicine, University of Medicine and Pharmacy "Iuliu Hatieganu" Cluj-Napoca "Octavian Fodor Award" for the best scientific activity of the year 2010 and the 2009 Romanian Academy of Medical Sciences "Gheorghe Marinescu Award" for advanced contributions in Neuroprotection and Neuroplasticity.



DAFIN F.  
MUREȘANU  
/ROMANIA



MS Centre, Head. Clinica Neurologica, Ospedale Maggiore della Carità, Novara.

Medical degree at the University of Torino in 1980. Guest Researcher at the Neuroepidemiology, Branch, NINCDS, NIH, Bethesda, USA in 1986-7. Chairman of the Scientific Panel "Neurotoxicology" and member of the Scientific Committee and the guideline production group of the European Federation of Neurological Societies. Associate Editor of European Journal of Neurology. Research areas: a) Epilepsy (risk factors and prognosis); b) Multiple sclerosis (genetic and environmental prognostic factors); c) Alcohol-related diseases (risk factors, clinical presentation, guidelines); d) Evidence based Neurology (guidelines). He is author of 131 papers in peer-reviewed journals.



**MAURIZIO A.  
LEONE**  
/ITALY

Maura PUGLIATTI, MD, PhD is Associate Professor of Neurology at the University of Sassari, Italy. She took a PhD in 2007 and was a Research Fellow in 2007-10 at the Dept. of Public Health and Primary Health Care, University of Bergen, Norway, actively coordinating a large multi-center case-control study on multiple sclerosis (MS) and environmental risk factors. She has been Visiting Professor at the University of Bergen teaching epidemiology to medical students through Erasmus Teaching Staff Mobility programs (2010-12). Since 2011 she is Adjunct Professor at the Dept. of Clinical Medicine, McGill University, Montreal, Canada within collaborative research in MS epidemiology. Since 2008 she chairs the EFNS Scientist Panel of Neuroepidemiology and Public Health. Her main research areas in epidemiology are MS, epilepsy, amyotrophic lateral sclerosis and myasthenia gravis, through collaborative research at national and international level. She is author of 87 papers in peer-reviewed scientific journals.



MAURA  
PUGLIATTI  
/ITALY





Born, 1952, he specialized in Veterinary Medicine between 1971 and 1974 at the University in Munich, then changed to the University in Cologne in 1974 and specialized in Human Medicine from 1974 to 1980. In 1976 to 1979, he additionally studied biometric methods for pharmacology and clinical research at the Institute for Data Analysis and Study Planning in Munich.

While studying human medicine, he completed research work on pattern recognition in the visual brain and developed a pharmacodynamic Neuron Simulation Model at the Institute for Medical Documentation and Statistics of the University at Cologne.

From 1985 to 1995, he was member of the Ultrahigh Dexamethasone Head Injury Study Group and leading biometrician of the German GUDHIS Study.

Since 1982 he holds advanced training courses on biometry for professionals in clinical research and university establishments. His work also involves human engineering of biometric software and GCP-compliant tutorials for biometric appraisal of clinical studies.

Since 1995 he cooperates closely with the Institute for Data Analysis and Study Planning as Senior Consultant for Biometry & Clinical Research. He planned and evaluated about 150 randomized clinical studies worldwide and is member of various international advisory boards including participation as biometric expert in regulatory authority panels and in FDA, EMEA, and BfArM hearings.



**JOHANNES C.  
VESTER**  
/GERMANY



# Scientific Program

Thursday, February 13<sup>th</sup>, 2014

“Cornel Oprisiu” Auditorium / UMF “Iuliu Hatieganu”

8 Victor Babeş Street

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9.00 – 9:30

Welcome and Introduction to the Course

Dafin Mureşanu /Romania

9.30 - 13:00

**MORNING SESSION**

Population Surveys in Neurology: theoretical approach

9:30 - 10:00

Design of epidemiological studies

Maurizio Leone /Italy

10:00 - 10:45

Population Surveys: scopes, prevalence, incidence, health registries

Maura Pugliatti /Italy

10:45 - 11:15

**Coffee Break**

11:15 - 12:00

Population Surveys: methodological problems, standardization

Maura Pugliatti /Italy

12:00 - 12:30

Population Surveys in Romania: source of data

Maurizio Leone /Italy

12:30 - 13:00

General Discussion

13:00– 14.00

**Lunch Break**

14:00 - 18:10

### AFTERNOON SESSION

Population Surveys in Neurology: practical session

14:00 - 15:00

Descriptive epidemiology: article reading and exercise on standardization

Tutors

(Maurizio Leone, Maura Pugliatti, Johannes Vester, Dařin Mureřanu)

15:00 - 16:00

Developing a protocol for a descriptive epidemiological study

Maurizio Leone /Italy

16:00 - 16:15

Coffee Break

16:15 - 18:00

The new trend in clinical research in neuroscience:

The multidimensional approach instead of testing individual endpoints

Johannes Vester /Germany

18:00 - 18:10

General Discussion

## Friday, February 14<sup>th</sup>, 2014

"Multimedia" Auditorium / UMF "Iuliu Hatieganu"

8 Victor Babeř Street

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9:00 - 13:00

### MORNING SESSION

Experimental and Observational Studies: theoretical approach

9:00 - 10:00

Clinical trials

Maurizio Leone /Italy

10:00 - 10:45

Cohort Studies

Maura Pugliatti /Italy


10:45 - 11:15

Coffee Break

11:15 - 12:15

Case-control Studies, confounding, effect modification and interaction

Maura Pugliatti /Italy



12:15 – 13:00

Discussion

13:00 - 14:00

Lunch Break

14:00 – 17:45

**AFTERNOON SESSION**

Experimental and Observational Studies: practical session

14:00 – 14:45

Critical reading of an article on clinical trials  
Tutors (Maurizio Leone, Maura Pugliatti)

14:45 – 15:30

Case-control studies: article reading  
Tutors (Maurizio Leone, Maura Pugliatti)

15:30 – 15:45

Coffee Break

15:45 – 16:15

Evidence-Based Medicine: an introduction  
Maurizio Leone /Italy

16:15-17:00

Effect Sizes and their relation: basics and common traps  
Johannes Vester /Germany

17:00 – 17:30

Guidelines: principles and basic ideas  
Maurizio Leone /Italy

17:30 – 18.00

Closing remarks  
(Dafin Mureşanu, Maura Pugliatti, Maura Leone, Johannes Vester)









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