



The 21st Budapest Nephrology School

Nephrology, Hypertension, Dialysis, Transplantation

Under the Auspices of
ISN, ERA-EDTA and ISP

26–31 August, 2014



In conjunction with **Young Nephrologists' Platform** (24-25, August, 2014)
and the **12th International Symposium on Wine and Health** and on the
occasion of the **9th World Kidney Day**

Semmelweis University
International Nephrology Research & Training Center
Worldwide Hungarian Medical Academy
Vanderbilt University Medical Center
University of Toronto, Avicenna College
International Society for Pathophysiology
Hungarian Kidney Foundation (Charity Reg. Nr. 596/1987)

 *25th Anniversary of the Hungarian Kidney Foundation* 

Dear Colleague,

Budapest Nephrology School is a one-week, English speaking, internationally recognized, CME refresher nephrology course which has been organized by the Hungarian Kidney Foundation at the **Semmelweis University** for the past 20 years, under the auspices of **ISN** and **ERA-EDTA**. The school is accredited worldwide by EU in Brussels. The School published a book titled "**Nephrology, Hypertension, Dialysis and Transplantation**" edited by *T. Andreoli, E. Ritz and L. Rosivall*. The new, 3rd edition of the book just has been published as an e-book and will be printed soon.

During this one-week program, our distinguished international speakers provide updates in nephrology, hypertension, dialysis and transplantation. We cover the *field from molecule to bedside*, from the most recent scientific advances to the current clinical approaches. Workshops provide the possibility for close interaction with the faculty in small groups. Participants are encouraged to present their *posters*, raise *questions* and consult other colleagues on problematic cases. Programs are also arranged to visit quality dialysis and research units. The Budapest Nephrology School has always kept *high standards* and performed successfully with international positive feed-backs. So far doctors from *62 countries* have attended the school. Our success is reflected by the increasing number of participants who have repeatedly attended the school.

The school is proud of its faculty who has represented the international most recognized experts in the field from the very beginning. We believe that the school is also a unique opportunity for our colleagues to spend some time in Budapest and while enjoying the cultural, architectural, social, historical beauties and the special Hungarian hospitality of a thousand years old country, meet with colleagues worldwide and get the refresher in the field from the best.

The 21st Budapest Nephrology School is held in conjunction with **Young Nephrologists' Platform** (24-25, August, 2014) and the **12th International Symposium on Wine and Health** and on the occasion of the **9th World Kidney Day**.

The 21st Budapest Nephrology School was accredited by the European Accreditation Council for Continuing Medical Education (EACCME) for 29 European CME credits (ECMEC). The Course included 52 hours of scientific lectures and a final examination which can be locally evaluated according to national standards (in Hungary it is equal to 50 CME credits).

Looking forward to seeing you in Budapest soon.

Sincerely yours,



László Rosivall, MD, PhD, DSc
President
Semmelweis University,
Faculty of Medicine
Department of Pathophysiology
International Nephrology Research & Training Center
Website: www.bns-hungary.hu
E-mail: rosivall.laszlo@med.semmelweis-univ.hu

FACULTY

Mustafa Arici, M.D
Hacettepe University Medical
Faculty, Ankara
aricim@gmail.com

Mónika Beck Gööz, M.D., Ph.D.
Associate Professor
Medicine/Nephrology, CSB Suite
829
Medical University of South
Carolina
96 Jonathan Lucas Street
Charleston, SC 29425
beckm@musc.edu

Anthony J. Bleyer, M.D., M.S.
Professor
Section on Nephrology
Wake Forest University School of
Medicine
Winston-Salem, NC 27157
Phone: 336-716-4513
Fax: 336-716-4318
ableyer@wakehealth.edu

Ernő Péter Botos, MD
Professor and Head
Institute for Viticulture and
Enology
Corvinus University
Úrihegy 5/A
H-6000, Kecskemét
Hungary
Tel: +36-76-494-888
Fax: +36-76-494-924
botosep@upcm.hu

Marc E. De Broe, MD, PhD
Professor of Medicine
University of Antwerp
Laboratory of Pathophysiology
Universiteitsplein 1
2610 Wilrijk/Antwerpen, Belgium
Tel: +32-3-820-2599
Fax: +32-3-820-2592
marc.debroe@ua.ac.be

Barry I. Freedman, M.D., F.A.C.P.
John H. Felts III Professor of Internal
Medicine
Chief, Section on Nephrology
Wake Forest School of Medicine
Medical Center Boulevard
Winston-Salem, NC 27157-1053

Tel: +336.716.6192
Fax: + 336.716.4318
bfreedma@wakehealth.edu

Simin Goral, MD
Professor of Medicine
University of Pennsylvania
Medical Center
3400 Spruce street
One Founders
19104 - Philadelphia, PA, U.S.A.
Tel: +1-215-662-3460
Fax: +1-215-615-0349
simin.goral@uphs.upenn.edu

Ágnes Haris, MD, PhD
Chief of Nephrology Section of
St. Margit Hospital
Bécsi út 132.,
1032 Budapest, Hungary
Tel: +36-1-250-2170
Fax: +36-1-439-0276
agnesharis@hotmail.com

Steve Harper, BSc,
MD,ChB(Manc), MRCP
Senior Clinical Lecturer
Dorothy Hodgkin Building,
Whitson Street, Bristol BS1 3NY
Tel: +44 (0) 117 928 9818
s.harper@bristol.ac.uk

J. Harold Helderman, MD
Professor of Medicine, Microbiology
and Immunology
Assistant Dean, Vanderbilt
University School of Medicine
Vanderbilt University Medical
Center
21st Avenue South Garland
S-3223 Medical Center North
Nashville, TN 37232-2372
United States
Tel: +1-615-322-6976
Fax: +1-615-343-7156
hal.helderman@vanderbilt.edu

Eva Honsova, MD, PhD
Pathology Department, Institute
for Clinical and Experimental
Medicine, Prague, Czech Republic
evhn@medicon.cz

Ewout J. Hoorn, MD, PhD,
Department of Internal Medicine:

Nephrology, Room H-436, PO Box
2040, 3015 CA Rotterdam, The
Netherlands. E-mail
ejhoorn@gmail.com

Sadayoshi Ito, Md, PhD
Professor of Medicine and Head,
Nephrology, Endocrinology and
Hypertension
Tohoku University
1-1-2-chome, Katahira, Aoba-ku,
Sendai 980-0077 JAPAN
db554@med.tohoku.ac.jp

**Kamyar Kalantar-Zadeh, MD,
MPH, PHD
FAAP, FACP, FASN, FAHA, FNKF**
Chief, Division of Nephrology &
Hypertension
Professor of Medicine, Pediatrics and
Public Health
University of California Irvine,
School of Medicine
Email: kkz@uci.edu
Adjunct Professor of Epidemiology
Dept. Epidemiology, UCLA Fielding
School of Public Health, Los
Angeles, CA
Email: kamkal@ucla.edu
Physician and Principal Investigator
VA Long Beach Healthcare System
5901 East 7th Street, Long Beach,
CA 90822
Tel: (562) 826-8000
kamyar.kalantar-zadeh@va.gov

Csaba P. Kovesdy, MD, FASN
Professor of Medicine
Director of the Clinical Outcomes
and Clinical Trials Program
University of Tennessee Health
Science Center
956 Court Ave., Room B216,
Memphis TN 38103
Tel: (901) 448-1569
Chief of Nephrology
Memphis VA Medical Center
Nephrology Section (111B)
1030 Jefferson Ave., Room G409
Memphis TN 38104
Tel.: (901) 577-7278 x6909/6918
Fax: (901) 577-7539
csaba.kovesdy@va.gov

Róbert Langer, MD, PhD
Professor

Chair of the Department of
Transplantation and Surgery,
Semmelweis University
Baross u. 23.
H-1082, Budapest
Hungary
Tel: +36-1-267-6000/80150
Fax: +36-1-317-2166
langer.robort@med.semmelweis-univ.hu

Francesco Locatelli, MD, PhD
Professor of Medicine
Ospedale A. Manzoni
Divisione di Nefrologia e Dialisi
Via Dell'Eremo 9-11
23900 Lecco
Italy
Tel: +39-0341-489850
Fax: +39-0341-489860
f.locatelli@ospedale.lecco.it

Krisztina Mészáros, MD
Krisztina.Meszáros@med.uni-heidelberg.de

Miklos Zsolt Molnar, MD, PhD
Assistant Professor
Institute of Pathophysiology,
Semmelweis University, Budapest
Division of Nephrology, University
of Toronto, Canada
molnar@medformol.hu

István Mucsi, MD, PhD
Associate Professor
Division of Nephrology
McGill University Health Centre
Royal Victoria Hospital
Montreal, Canada
and
Department of Pathophysiology
and Institute of Behavioural
Sciences
Semmelweis University, Budapest
istvan@nefros.net

Márta Novák, MD, PhD
Associate Professor
Semmelweis University
Institute of Behavioural Sciences
and Associate Professor
Dept. of Psychiatry, University of
Toronto
Nagyvárad tér 4., 1089 Budapest,
Hungary

Tel: +36-1-210-2930
Fax: +36-1-210-1220
marta@nefros.net

János Peti-Peterdi, MD, PhD
Professor
Zilkha Neurogenetic Institute
Keck School of Medicine
University of Southern California
1501 San Pablo st.
90089-2821 Los Angeles,
California
Tel: +1-323-442-4337
Fax: +1-323-442-4466
janos.peti-peterdi@keck.usc.edu

Kálmán Polner, MD
Chief of Nephrology Section of
St. Margit Hospital
Bécsi út 132., 1032 Budapest,
Hungary
Tel: +36-1-250-2170
Fax: +36-1-439-0276
polner.kalman@hotmail.com

György Reusz, MD, PhD, DSc
Professor
I. Department of Pediatrics
Semmelweis University
Bókay J. u. 53.
H-1083 Budapest
Hungary
Tel: +36-1-324-7795
Fax: + 36-1-324-7795
reusz.gyorgy@med.semmelweis-univ.hu

Eberhard Ritz, Dr. Dr. med. h.c.
mult.
FRCP(London und Edinburgh)FACP
Immediate Past President of
International Society of
Nephrology (ISN)
Professor of Medicine
Dept. Internal Medicine
Division Nephrology
Im Neuenheimer Feld 162
D-69120 Heidelberg
Germany
Tel: +49 (0) 6221 601705 or +49
(0) 6221 189976
Fax: +49 (0) 6221 603302
Prof.E.Ritz@t-online.de

László Rosivall, MD, PhD, DSc
Professor of Pathophysiology

Hungarian Academy of Sciences
and Semmelweis University
Research Group for Pediatrics and
Nephrology
Institute of Pathophysiology
Faculty of Medicine
Semmelweis University, Budapest,
Nagyvárad tér 4., 1089, Hungary
Tel/Fax: +36-1-2100-100
rosivall.laszlo@med.semmelweis-univ.hu

Gerald Schulman, MD, FASN
Professor of Medicine
Co-Director of the Clinical Trials
Center in Nephrology
Vanderbilt University School of
Medicine
S-3223 Medical Center North
Nashville, Tn. 37232
USA
Tel: +1-615-322-6976
Fax: +1-615-343-7156
gerald.schulman@vanderbilt.edu

Peter Stenvinkel, MD
Professor of Renal Medicine
Dept of Renal Medicine K56
Karolinska university Hospital at
Huddinge
Karolinska Institutet
141 86 Stockholm
Tel +46-8-58582532
Mobile +46-73-6998771
Fax +46-8-7114742
Peter.Stenvinkel@ki.se

Mehmet Sükrü Sever, MD
Department of Nephrology,
Istanbul School of Medicine
severm@hotmail.com

Balázs Szamosfalvi, MD
Director, In-Patient Dialysis and
CRRT
Henry Ford Hospital
2799 W. Grand Blvd.
Detroit, MI 48202, U.S.A.
Tel: +1-313-916-2702
Fax: +1-313-916-2554
bszamos1@hfhs.org

Ágoston Szél, MD
President of Semmelweis
University
1088 Budapest,
Üllői út 26.
Tel: +36-1-459-1500

Jens Titze, PD Dr. med.
Department of Nephrology and
Hypertension and
Nikolaus-Fiebiger-Centre for
Molecular Medicine
Friedrich-Alexander-University
Erlangen-Nuremberg
Glückstr. 6
91054 Erlangen
Germany
Tel: +49-9131-8539300
Fax: +49-9131-8539311
jtitze@molmed.uni-erlangen.de

Andrzej Wiecek, MD
Professor
Dept. of Nephrology,
Endocrinology
And
Metabolic Diseases
Silesian University School of
Medicine
Chief of Department: Prof. Dr hab
Andrzej Wiecek
40-027 Katowice, Francuska 20-
24, Poland
Tel: +48-32-255-2695,
Fax: +48-32-255-3726
awiecek@spskm.katowice.pl

Preliminary Program

AUGUST 26 (Tuesday)

08:00 – 09:00 **REGISTRATION**
Venue:
Department of Transplantation and Surgery
Semmelweis University
Baross street 23.
1082 Budapest

OPENING

09:00 – 09:20 Welcome Addresses and Official Opening
L. Rosivall, President of the Hungarian Kidney Foundation
E. Ritz, Past President of the International Society of Nephrology
Á. Szél, President of the Semmelweis University, Budapest, Patronage of the School
Gy. Reusz, President of the Hungarian Nephrological Society, Budapest
R. Langer, Chair of the Department of Transplantation and Surgery, Semmelweis University

FROM MOLECULES TO BEDSIDE, FROM THEORY TO PATIENT CARE

Moderator:

09:20 – 09:50 **How the Glomerulus Works, Functional Morphology?**
09:50 – 10:00 Discussion
Steve Harper, UK

10:00 – 10:30 **How the Glomerulus Works, GFR Regulation?**
10:30 – 10:40 Discussion
Steve Harper, UK

10:40 – 11:10 **Estimation and Measurement of GFR, Past, Present and Future**
11:10 – 11:20 Discussion
Mustafa Arici, Turkey

11:20 – 11:50 **Disaster Nephrology**
11:50 – 12:00 Discussion
Mustafa Arici, Turkey

12:00 – 12:50 **Lunch**

Moderator:

12:50 – 13:20 **Interstitial Microbiota-Kidney Diseases**
13:20 – 13:30 Discussion
Hans Joachim Anders, Germany

13:30 – 14:00 **Role of Diet in Nephrology**
14:00 – 14:10 Discussion
Kamyar Kalantar-Zadeh, U.S.A.

14:10 – 14:40 **Role of Diet in Nephrology Care**
14:40 – 14:50 Discussion
Kamyar Kalantar-Zadeh, U.S.A.

14:50 – 15:20 **Coffee Break**

Moderator:

15:20 – 15:50 **Visualization of Kidney Tissue Regeneration**
15:50 – 16:00 Discussion
János Peti-Peterdi, U.S.A.

16:00 – 16:30 **Role of Different Cells in Renal Regeneration**
16:30 – 16:40 Discussion
Hans Joachim Anders, Germany

**12TH INTERNATIONAL SYMPOSIUM ON WINE AND HEALTH
in conjunction with the 21st Budapest Nephrology School**

16:40 – 17:10 **Effects of Alcohol and Wine on Health**
17:10 – 17:20 Discussion
Eberhard Ritz, Germany

**18:30 – 22:00 Elaboration and Presentation of Hungarian Wines
Symposium Dinner**

18:30 – 18:40 **Presidential Greetings**
László Rosivall, Hungary

18:40 – 19:10 **Elaboration and Presentation of Hungarian Wines**
Ernő Péter Botos, Hungary

19:10 – 22:00 **Dinner**
Special Hungarian Dishes
Selected Quality Wines from the Best Known Hungarian Cellars

Number of lectures: 10

AUGUST 27 (Wednesday)

Moderator:

09:00 – 09:30 **Circadian Oscillation in the Kidney**
09:30 – 09:40 Discussion
Krisztina Mészáros, Eberhard Ritz, Germany

09:40 – 10:10 **Kidney Biomimicry**
10:10 – 10:20 Discussion
Peter Stenvinkel, Sweden

10:20 – 10:50 **Obesity and Kidney Diseases**
10:50 – 11:00 Discussion
Peter Stenvinkel, Sweden

11:00 – 11:30 **Coffee Break**

Moderator:

11:30 – 12:00 **Renal Renin-Angiotensin System**

12:00 – 12:10	Discussion <i>János Peti-Peterdi, U.S.A.</i>
12:10 – 12:40	Genetics of Non-Diabetic Kidney Disease
12:40 – 12:50	Discussion <i>Barry I Freedman, U.S.A.</i>
12:50 – 13:40	Lunch
<i>Moderator:</i>	
13:40 – 14:10	Genetics of Diabetic Kidney Disease and Essential Hypertension
14:10 – 14:20	Discussion <i>Barry I Freedman, U.S.A.,</i>
14:20 – 14:50	News in Diabetic Nephrology
14:50 – 15:00	Discussion <i>Eberhard Ritz, Germany</i>
15:00 – 15:30	Coffee Break
<i>Moderator:</i>	
15:30 – 16:00	Renal Pharmacology
16:00 – 16:10	Discussion <i>Marc E. De Broe, Belgium</i>
16:10 – 16:40	Nephrotoxicity
16:40 – 16:50	Discussion <i>Marc E. De Broe, Belgium</i>
16:50 – 17:20	Buffet
17:20 – 18:10	Visit of the Historical Building of the Semmelweis University
20:00 – 21:00	ORGAN CONCERT Venue: St. Stephen Basilica 1051 Budapest, St. Stephen square

Number of lectures: 9

AUGUST 28 (Thursday)

Moderator:

09:00 – 09:30	Bone, Vasculature, Calcium and Renal Diseases
09:30 – 09:40	Discussion <i>Eberhard Ritz, Germany</i>
09:40 – 10:10	FGF23: An update for Clinicians
10:10 – 10:20	Discussion <i>Csaba P. Kövesdy, U.S.A.</i>
10:20 – 10:50	Uric Acid in Nephrology
10:50 – 11:00	Discussion <i>Anthony J. Bleyer, U.S.A.</i>

- 11:00 – 11:30 **Coffee Break**
- Moderator:*
- 11:30 – 12:00 **Tubular Transport**
12:00 – 12:10 Discussion
János Peti-Peterdi, U.S.A.
- 12:10 – 12:40 **Tissue Sodium in Normotensive individuals and Hypertensive Patients**
12:40 – 12:50 Discussion
Jens Titze, Germany, U.S.A.
- 12:50 – 13:40 **Lunch**
- Moderator:*
- 13:40 – 14:10 **Lymph, Guts and Hypertension-Hypothesis?!**
14:10 – 14:20 Discussion
Jens Titze, Germany, U.S.A.
- 14:20 – 14:50 **Hyponatremia**
14:50 – 15:00 Discussion
Ewout J. Hoorn, The Netherlands
- 15:00 – 15:30 **Electrolyte Disturbances**
15:30 – 15:40 Discussion
Ewout J. Hoorn, The Netherlands
- 15:40 – 16:10 **Coffee Break**
- Moderator:*
- 16:10 – 16:40 **Clinical Approach to Polycystic Kidney Disease**
16:40 – 16:50 Discussion
György Reusz, Hungary
- 16:50 – 17:20 **Regulation of Bioenergetics in PKD and CKD**
17:20 – 17:30 Discussion
Mónika Beck Gööz, U.S.A.
- 17:30 – 18:00 **Buffet**
- 20:00 – 21:00 BOAT TOUR ON THE DANUBE**

Number of lectures: 10

AUGUST 29 (Friday)

Moderator:

- 08:40 – 09:10 **The Kidney in Heart Failure**
09:10 – 09:20 Discussion
Sadayosi Ito, Japan
- 09:20 – 09:50 **The Kidney and Metabolism**

09:50 – 10:00 Discussion
Sadayosi Ito, Japan

10:00 – 10:30 **My Most Interesting Cases**
10:30 – 10:40 Discussion
Faculty

10:40 – 11:10 **Coffee Break**

Moderator:

11:10 – 11:40 **My Most Interesting Cases**
11:40 – 11:50 Discussion
Participants

11:50 – 12:20 **News in Glomerular Diseases**
12:20 – 12:30 Discussion
Hans Joachim Anders, Germany

12:30 – 13:00 **Alternative Hemodialysis Regimens**
13:00 – 13:10 Discussion
Gerald Schulman, U.S.A.

13:10 – 13:40 **Where does Nephrology Go?**
13:40 – 13:50 Discussion
Peter Stenvinkel, Sweden

Moderator:

13:50 – 14:20 **“Meet the Professors” - Discuss Your Own Questions with the Professors**

14:20 – 15:00 **Lunch**

15:00 – 19:00 SIGHTSEEING TOUR, PARLIAMENT VISIT

Number of lectures: 7

AUGUST 30 (Saturday)

Venue: B. Braun Avitum, Aesculap Academy
1115 Budapest, Halmi u. 20-22.
(Transportation will be provided.)

DIALYSIS, TRANSPLANTATION

Moderator:

09:00 – 09:30 **Dialysis, 2014**
09:30 – 09:40 Discussion
Francesco Locatelli, Italy

09:40 – 10:10 **Haemodiafiltration**
10:10 – 10:20 Discussion
Francesco Locatelli, Italy

10:20 – 10:50 **Novel Extracorporeal Support Techniques for Patients with SIRS**
10:50 – 11:00 Discussion

Balázs Szamosfalvi, U.S.A.

11:00 – 11:30

Coffee Break

Moderator:

11:30 – 12:00

Impact of Recipients' Obesity on the Outcome of Kidney Transplantation

12:00 – 12:10

Discussion

Miklós Zs. Molnár, Canada

12:10 – 12:40

Cardiovascular Risk Reduction in Kidney Transplant Recipients

12:40 – 12:50

Discussion

István Mucsi, Canada, Hungary

12:50 – 13:40

Lunch

Moderator:

13:40 – 14:10

Polyoma Virus Infection

14:10 – 14:20

Discussion

J. Harold Helderman, U.S.A.

14:20 – 14:50

Eurotransplant and Hungary

14:50 – 15:00

Discussion

Róbert Langer, Hungary

15:00 – 15:30

Live Kidney Transplantation and Barrier to Kidney Donation

15:30 – 15:40

Discussion

Simin Goral, U.S.A.

15:40 – 16:10

Coffee Break

Moderator:

16:10 – 16:40

Hepatitis C in Transplantation

16:40 – 16:50

Discussion

Simin Goral, U.S.A.

16:50 – 17:20

Renal Denervation

17:20 – 17:30

Discussion

Andrzej Wiecek, Poland

POSTER SESSION

Moderators:

17:30 – 18:30

Discussion with Wine

18:30 – 20:00

FAREWELL RECEPTION

Number of lectures: 10

AUGUST 31 (Sunday)

RENAL PATHOLOGY - RENAL PATHOLOGY SOCIETY SUPPORTED

Moderator:

- 07:40 – 08:10 **Renal Pathology-Present and Future**
08:10 – 08:20 Discussion
 Béla Iványi, Hungary
- 08:20 – 08:50 **Renal Pathology - Transplantation**
08:50 – 09:00 Discussion
 Eva Honsova, Czech Republic
- 09:00 – 09:30 **Pathology Quiz**
09:30 – 09:40 Discussion
 Eva Honsova, Béla Iványi, Czech Republic, Hungary
- 09:40 – 10:10 **Coffee Break**

PSYCHONEPHROLOGY, REHABILITATION

- 10:10 – 10:10 **Complex Approach to patients with CKD**
10:40 – 10:50 Discussion
 Ágnes Haris, Kálmán Polner, Hungary
- 10:50 – 11:10 **Rehabilitation of Patients with CKD, a Hungarian example**
11:10 – 11:20 Discussion
 Kálmán Polner, Ágnes Haris, Hungary

EXAMINATION

- 11:20 – 12:20 **Test**
- 12:20 – 12:50 **Psychonephrology: the Psychosocial Impact of Chronic Kidney Disease**
12:50 – 13:00 Discussion
 Márta Novák, Canada, Hungary
- 13:00 – 14:00 **Lunch**

CONCLUDING REMARKS

- 14:00 – 14:20 *László Rosivall, Hungary*

Number of lectures: 6

Total Number of lectures: 52

Contact person:

Prof. Dr. Laszlo Rosivall, DSc
President of BNS
Széchenyi Prize laureate
Professor of Pathophysiology
Head of Institute of Pathophysiology,
Head of PhD School of Medical Sciences,
Faculty of Medicine

Semmelweis University, Budapest
Nagyvarad ter 4.
H-1089, Hungary
Tel/Fax: 36-1-2100-100 Mobile: 36-20-825-9756
E-mail: rosivall.laszlo@med.semmelweis-
univ.hu