



# The 16th Budapest Nephrology School

Nephrology, Hypertension, Dialysis, Transplantation

Under the auspices of

**ISN, ERA-EDTA and ISP**

26–31 August, 2009



In conjunction with the 7th International Symposium on Wine and Health  
and on the occasion of the 4th World Kidney Day

**In memory to Prof. Dr. Thomas E. Andreoli**

Semmelweis University  
International Nephrology Research & Training Center  
Worldwide Hungarian Medical Academy  
Vanderbilt University Medical Center  
University of Toronto, Avicenna College  
Hungarian Kidney Foundation (Reg. No 596/1987)

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**Dear Colleague,**

It is my pleasure to welcome you to the 16th Budapest Nephrology School organized in conjunction with the 7th International Symposium on Wine and Health and on the occasion of the 4th World Kidney Day.

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. You will also enjoy close interaction with the faculty in small group workshops. You are encouraged to present your poster, raise questions and consult your colleagues on problematic cases. You are also invited to visit our quality dialysis and research units.

We have acted, based on the experience from previous successful years, to keep our standards high, invite internationally known speakers, provide the most optimal environment, encourage interaction and at the same time reduce the participation fee to the minimum. Our success is reflected by the increasing number of participants who have repeatedly attended the school. I hope that the commitment of my colleagues have successfully provided the best conditions for you to learn during this week. I also hope that you will enjoy our exciting social programs in Budapest. You should not forget about the 7th International Symposium on Wine and Health, an important event where you will taste quality Hungarian wines. Wine is not only important to Hungarians but it has a several thousand-year history in mankind's life. Although, there are 24 historical vineyards in our country, among them such famous places as Tokaj, Villány, Badacsony, and the long culture and tradition of wine consumption, there is a high incidence of cardiovascular disease with the resultant serious decrease in life expectancy in this region.

The 16th Budapest Nephrology School is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) for 40 CME credits. The Course includes 43 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).

Sincerely yours,

A handwritten signature in blue ink, consisting of a large, stylized 'R' followed by 'osivall'.

**László Rosivall, M.D., PhD., DSc.**  
President

Semmelweis University,  
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# PROGRAM

## AUGUST 26 (WEDNESDAY)

- 08:00–09:00 **REGISTRATION**  
Venue: Department of Transplantation and Surgery, Semmelweis University  
Baross street 23., 1082 Budapest
- 09:00–09:45 **Welcome Addresses and Official Opening**
- 09:00–09:30 *L. Rosivall*, President of the Hungarian Kidney Foundation  
*E. Ritz*, Immediate Past President of the International Society of Nephrology  
*G.M. London*, President of the European Renal Association – European Dialysis and Transplant Association  
*T. Tulassay*, President of the Semmelweis University, Budapest  
*I. Kiss*, Country's Chief Nephrologist, President of Hungarian Society of Hypertension  
*R. Langer*, Chairman of the Department of Transplantation and Surgery, Semmelweis University
- 09:30–09:45 **Introduction of Gomboc, a Hungarian Invention**  
*P. Várkonyi*, Self-righting Shapes in Mathematics and in Nature

### KEYNOTE LECTURE

- Moderator: László Rosivall (Budapest, Hungary)*
- 10:00–10:30 **From Replacement to Prevention – from the Patient's Perspective**
- 10:30–10:45 Discussion  
*Per Åke Zillén*

### BASIC SCIENCE/PATHOMECHANISM OF DISEASE

- 10:45–11:15 **Real-Time Imaging of Kidney Functions in Vivo**
- 11:15–11:30 Discussion  
*János Peti-Peterdi*
- 11:30–12:00 **Intrarenal Renin-Angiotensin Systems**
- 12:00–12:15 Discussion  
*János Peti-Peterdi*
- 12:15–13:00 **Lunch**
- Moderator: Eberhard Ritz (Heidelberg, Germany)*
- 13:00–13:30 **New Findings in Sodium Balance**
- 13:30–13:45 Discussion  
*Jens Titze*

- 13:45–14:15 **Aldosterone – Beyond Blood Pressure**
- 14:15–14:30 Discussion  
*Eberhard Ritz*
- 14:30–15:00 **Cardiovascular Protection and the RAS**
- 15:00–15:15 Discussion  
*Katalin Kauser*
- 15:15–15:45 **Coffee break**
- Moderator: Gérard M. London (Paris, France)*
- 15:45–16:15 **Renalase a New Renal Hormone – from Bedside to Research Lab and Back**
- 16:15–16:30 Discussion  
*Zivojin Stevanovic*

### APPROACHING THE PATIENT WITH RENAL DISEASE

- 16:30–17:00 **Kidney Biopsy**
- 17:00–17:15 Discussion  
*Eberhard Ritz*

### 7TH INTERNATIONAL SYMPOSIUM ON WINE AND HEALTH in conjunction with the 16th Budapest Nephrology School

- Venue: Hunguest Hotel Platanus, Könyves K. krt. 44.
- 18:00–18:10 **Presidential Greetings**  
*László Rosivall*
- 18:10–18:30 **Cardiovascular Risk and Alcohol in General and Red Wine in Specific**  
*Eberhard Ritz*
- 18:30–20:00 **Elaboration and Presentation of the Hungarian Wines**  
*Ernő Péter Botos*
- 20:00–22:00 **Dinner**  
Special Hungarian Dishes  
Selected quality wines from the best known Hungarian cellars

## AUGUST 27 (THURSDAY)

- Moderator: Jan T. Kielstein (Hannover, Germany)*
- 09:00–09:30 **Clinical Evaluation of GFR and Albuminuria**
- 09:30–09:45 Discussion  
*Allan J. Collins*

### HYPERTENSION

- 09:45–10:15 **Renovascular Hypertension**
- 10:15–10:30 Discussion  
*Endre Kolossváry*
- 10:30–11:00 **Coffee break**

Moderator: Allan J. Collins (Minneapolis, MN, USA)

11:00–11:30 **Kidney and Hypertension**

11:30–11:45 Discussion  
Eberhard Ritz

#### CLINICAL NEPHROLOGY

11:45–12:15 **Acute Renal Failure**

12:15–12:30 Discussion  
Jan T. Kielstein

12:30–13:30 **Lunch**

Moderator: Ivan Rychlik (Prague, Czech Republic)

13:30–14:00 **Primary Glomerular Disease**

14:00–14:15 Discussion  
Ivan Rychlik

14:15–14:45 **Secondary Glomerular Disease (except Diabetic Nephropathy)**

14:45–15:00 Discussion  
György Deák

15:00–15:30 **Coffee break**

Moderator: György Deák (Budapest, Hungary)

15:30–16:00 **Diabetic Nephropathy – Update**

16:00–16:15 Discussion  
Eberhard Ritz

16:15–16:45 **Effective Treatment Strategies to Delay the Progression of Renal Disease and Vascular Disease in CKD**

16:45–17:00 Discussion  
Gérard M. London

17:00–17:45 **Buffet**

#### ORGAN CONCERT

19:30–20:30 **by Prof. Dr. János Borvendég**  
Venue: St. Stephen Basilica  
1051 Budapest, St. Stephen square

#### AUGUST 28 (FRIDAY)

##### DISTURBANCES IN CONTROL OF BODY FLUID VOLUME AND COMPOSITION

Moderator: Adrian Covic (Iasi, Romania)

08:30–09:00 **Pathophysiology of Water and Ion Metabolism**

09:00–09:15 Discussion  
Ágnes Haris

09:15–09:45 **Acid-Base Disorders, Acid-Base Quiz**

09:45–10:00 Discussion  
Ágnes Haris

##### CHRONIC RENAL FAILURE

10:00–10:30 **Prevalence of CKD**

10:30–10:45 Discussion  
Allan J. Collins

10:45–11:15 **Coffee break**

Moderator: Marc E. De Broe (Antwerp, Belgium)

11:15–11:45 **Screening for Chronic Kidney Disease: Racial Implications**

11:45–12:00 Discussion  
Jan T. Kielstein

12:00–12:30 **Complications of CKD: Renal Anemia**

12:30–12:45 Discussion  
Andrzej Wiecek

12:45–13:45 **Lunch**

Moderator: Andrzej Wiecek (Katowice, Poland)

13:45–14:15 **Targeting Vascular Damage (Stiffness, Calcifications) in CKD Beyond Blood Pressure**

14:15–14:30 Discussion  
Adrian Covic

14:30–15:00 **Secondary Hyperparathyroidism – an Update on Pathophysiology and Treatment**

15:00–15:15 Discussion  
Marc E. De Broe

15:15–15:45 **Coffee break**

Moderator: Jens Titze (Erlangen, Germany)

15:45–16:15 **Molecular and Cellular Mechanism of Vascular Calcification**

16:15–16:30 Discussion  
Gérard M. London

16:30–17:00 **Cardiovascular Aspects of Chronic Kidney Disease**

17:00–17:15 Discussion  
Gérard M. London

17:15–17:45 **Polycystic Kidney Disease**

17:45–18:00 Discussion  
Gerald Schulman

18:00–18:30 **Buffet**

**Free Evening**

#### AUGUST 29 (SATURDAY)

##### RENAL REPLACEMENT THERAPY

Moderator: Tibor Tóth (Bristol, UK)

09:00–09:30 **Hemodialysis Adequacy**

09:30–09:45 Discussion  
Balázs Szamosfalvi

09:45–10:15 **Alternative Therapies – Frequent, Long Dialysis, Hemodiafiltration**

10:15–10:30 Discussion  
Balázs Szamosfalvi

10:30–11:00 **Intensive Care Nephrology**

11:00–11:15 Discussion  
Jan T. Kielstein

11:15–11:30 **Coffee break**

Moderator: Balázs Szamosfalvi (Detroit, MI, USA)

11:30–12:00 **Predialysis Care**

12:00–12:15 Discussion  
*István Mucsi*

12:15–12:45 **Peritoneal Dialysis – Adequacy and Complications**

12:45–13:00 Discussion  
*Balázs Szamosfalvi*

13:00–14:00 **Lunch**

**GUIDED VISIT TO THE HUNGARIAN PARLIAMENT**

14:30–15:15 1055 Budapest, Kossuth Lajos square  
1-3. Gate No. XII

15:15–20:00 *Free Afternoon: Happy hours in Budapest*

**BOAT TOUR ON THE DANUBE**

20:00–21:00 Departure: Vigadó square Gate No. 8.

**AUGUST 30 (SUNDAY)**

**Venue: B. Braun Avitum, Aesculap Academy**

1115 Budapest, Halmi u. 20-22.  
(Transportation will be provided.)

Moderator: *István Kiss (Budapest, Hungary)*

09:00–09:30 **Exercise Rehabilitation-does it Play a Role in the Management of Patients with Chronic Kidney Disease?**

09:30–09:45 Discussion  
*Stefan Mustata*

09:45–10:15 **Complications in Hemodialysis**

10:15–10:30 Discussion  
*Gerald Schulman*

10:30–11:00 **Coffee break**

Moderator: *J. Harold Helderman (Nashville, TN, USA)*

11:00–11:30 **Vascular Access**

11:30–11:45 Discussion  
*Gerald Schulman*

**RENAL TRANSPLANTATION**

11:45–12:15 **Recurrent Diseases After Transplantation**

12:15–12:30 Discussion  
*Simin Goral*

12:30–13:30 **Lunch**

Moderator: *Gerald Schulman (Nashville, TN, USA)*

13:30–14:00 **Transplantation With Expanded Criteria Kidney Donors**

14.00–14:15 Discussion  
*Simin Goral*

14:15–14:45 **Novel Targets for New Immunosuppressive Agents in Clinical Trials**

14.45–15:00 Discussion  
*J. Harold Helderman*

15:00–15:30 **Coffee break**

Moderator: *Simin Goral (Philadelphia, PA, USA)*

15:30–16:00 **Immunosuppressive Drugs, How They Work on Immune Mechanisms**

16:00–16:15 Discussion  
*J. Harold Helderman*

16:15–16:45 **Managing Kidney Transplant Patients – Beyond Immunosuppression**

16:45–17:00 Discussion  
*István Mucsi*

**POSTER SESSION**

Moderators: *Ágnes Haris (Budapest, Hungary)*  
*István Mucsi (Budapest, Hungary)*  
*Stefan Mustata (Calgary, Canada)*

17:00–19:00 **Discussion with Wine**

**FAREWELL RECEPTION**

19:00–21:00 Sponsored by **B.Braun Hungary LTD.**

**AUGUST 31 (MONDAY)**

**PSYCHONEPHROLOGY**

Moderator: *Márta Novák (Budapest, Hungary)*

09:00–09:30 **Psycho-nephrology: Psycho-social Management of Patients with CKD**

09:30–09:45 Discussion  
*Márta Novák*

09:45–10:15 **Sleep Disorders in Patients with CKD**

10:15–10:30 Discussion  
*István Mucsi*

10:30–11:00 **Coffee break**

**RENAL PATHOLOGY**

Moderator: *Béla Iványi (Szeged, Hungary)*

11:00–11:30 **Renal Pathology**

11:30–11:45 Discussion  
*Tibor Tóth*

11:45–12:15 **Pathology of Kidney Allograft Dysfunction**

12:15–12:30 Discussion  
*Béla Iványi*

**EXAMINATION**

12:30–13:15 Test

13:15–14:00 **Lunch**

14:00–14:30 **Renal Pathology Quiz**

14:30–14:45 Discussion  
*Tibor Tóth*

**CONCLUDING REMARKS**

14:45–15:00 László Rosivall

## COMMENTARY

“... it is a pleasure for the International Society of Nephrology to recognize the tradition established by Dr. Rosivall and his colleagues in the heart of Europe, servicing so many colleagues in their quest for knowledge. Experts from various parts of the world have contributed to render the Budapest School into one of the best of its kind. We congratulate Dr. Rosivall on this momentous achievement.”

JAN J. WEENING, Past President of ISN

“As a President of ERA-EDTA association I'm very proud that our Society is a sponsor of the Budapest Nephrology School that next year will celebrate the 10th Anniversary. The best comment about the quality of this school come from a letter I received from one of the participants at last school “I was fortunate to be one of the sponsored delegate by the ERA. I do not have any words to express my sincere gratitude to the ERA and especially you for considering me for the grant from ERA.” I do believe there are no other words to add!”

FRANCESCO LOCATELLI, Past President of ERA-EDTA

“The Semmelweis University under the dedicated leadership of Professor Rosivall has developed the tradition of an annual Nephrology Summer School in Budapest... The panel of experts is impressive and has included some of the top leaders of nephrology in the world. In recognition of the high standard of this meeting, both the International Society of Nephrology (ISN) and the European Renal Association (ERA) co-sponsor this important event.”

EBERHARD RITZ, President-Elect of ISN

“Great work, worth to recommend to colleagues.”

A PARTICIPANT

### Some faculty members of the previous Schools

*T. Andreoli, J. Balla, J. M. Bargman, C. Baylis, P.D. Bell, W. Van Biesen, R. Blantz, B. M. Brenner, R. de Châtel, E. Cole, R. Coppo, W. G. Couser, A. Covic, P. Csermely, A. Davison, Gy. Deák, G. Devins, J. Dirks, T. B. Drücke, Cs. Dzsinih, K-U. Eckardt, A. Falus, J. Feehally, L. G. Fine, M. Fischeder, A. Fogo, D. Fouque, P. Gergely, D. Goldsmith, M. Goligorsky, S. Goral, J. G. Grunfeld, S. Halperin, Á. Haris, L. Harper, U. Heemann, A. Heidland, J. H. Helderman, G. Hercz, L. Hunyadi, E. J. Holtzman, A. Horváth, A. Iaina, N. Ismail, B. Iványi, K. J. Jager, J. Járny, V-M. Kahari, D. Kerjaschki, I. Kiss, H. Klinkmann, G. Kovacs, R. T. Krediet, K. Kurokawa, N. Lameire, S. Van Laecke, M. Little, A. Logan, N. Levin, F. Locatelli, F. Luft, A. MacLeod, O. Mehls, D. C. Mendelssohn, A. Meyrier, I. Mucsi, G. A. Müller, J. Nagy, D. Naimark, M. Novák, K. Olgaard, H. H. Parving, M. Paul, F. Perner, J. Peti-Peterdi, R. Pisoni, A. Rees, P. Ronco, E. Ritz, L. Rosivall, B. Rutkowski, B. Sarkadi, D. Schlöndorff, H. Schmidt-Gayk, G. Schulman, E. Slatopolsky, S. Sonkodi, A. Spät, T. Szabó, A. Tislér, S. W. Tobe, T. Tóth, T. Tullassy, S. Vas, P. Venetianer, J. J. Weening, A. Wiecek, I. Wittman, D. de Zeeuw, P.A. Zillén*

## 16th Budapest Nephrology School

### TIMETABLE AT A GLANCE

	<b>Wednesday *</b> <i>Aug. 26</i>	<b>Thursday</b> <i>Aug. 27</i>	<b>Friday</b> <i>Aug. 28</i>	<b>Saturday</b> <i>Aug. 29</i>	<b>Sunday<sup>+</sup></b> <i>Aug. 30</i>	<b>Monday</b> <i>Aug. 31</i>
<i>Morning</i>	<b>Registration</b> 08:00–09:00  <b>Official Opening</b> 09:00–09:45  <b>Lectures</b> 10:00–12:15	<b>Lectures</b> 09:00–12:30	<b>Lectures</b> 08:30–12:45	<b>Lectures</b> 09:00–13:00	<b>Lectures</b> 09:00–12:30	<b>Lectures</b> 09:00–12:30  <b>Examination</b> 12:30–13:15
<i>Afternoon</i>	<i>Lunch</i> 12:15–13:00  <b>Lectures</b> 13:00–17:15	<i>Lunch</i> 12:30–13:30  <b>Lectures</b> 13:30–17:00  <i>Buffet</i> 17:00–17:45	<i>Lunch</i> 12:45–13:45  <b>Lectures</b> 13:45–18:00  <i>Buffet</i> 18:00–18:30	<i>Lunch</i> 13:00–14:00  <b>Visit to Parliament</b> 14:30–15:15  <b>Free afternoon</b>	<i>Lunch</i> 12:30–13:30  <b>Lectures</b> 13:30–17:00  <b>Posters with Wine</b> 17:00–19:00	<i>Lunch</i> 13:15–14:00  <b>Lecture</b> 14:00–14:45  <b>Concluding</b> 14:45–15:00
<i>Evening</i>	<b>7th Int Symp on Wine and Health</b> , Hotel Platanus 18:00–22:00	<b>Concert, St. Stephen Basilica</b> 19:30–20:30	<i>Free Evening</i>	<b>Boat Tour on the Danube</b> 20:00–21:00	<b>Farewell Reception</b> 19:00–21:00	

\* In conjunction with the 7th International Symposium on Wine and Health and on the occasion of the 4th World Kidney Day

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

### SPONSORS

Hungarian Kidney Foundation, International Society of Nephrology,  
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