



THE 28TH BUDAPEST NEPHROLOGY SCHOOL

Nephrology, Hypertension, Dialysis, Transplantation, Nephropathology

26 - 30 AUGUST, 2024

Held at Semmelweis University with a highly distinguished international faculty, the Budapest Nephrology School is one of the most well-known refresher courses in the field of nephrology. It attracted many young physicians from Europe and around the world (68 countries) since 1993.

Features:

- **Nephrology course with diverse topics, including:** electrolyte disorders, glomerular physiology and pathophysiology, transplantation, nephropathology, tubular diseases, chronic kidney disease, hypertension
- **Lectures from leading experts of nephrology:** László Rosivall, Friedrich C. Luft, Jens M. Titze, Norbert Pardi, Janos Peti-Peterdi, Georgina Gyarmati, Katalin Susztak, Kitty J. Jager, Péter Studinger, Josh Lipschutz, Albert Ong, Simin Goral, Ondrej Viklicky, Eva Honsova, Gábor Kökény, Attila Mócsai, András Tislér, Safak Mirioglu
- **“Meet the Professors”** – an informal meeting during which participants can discuss their experiences and observations with the faculty
- A poster session which aims to have the participants discuss and consult their own research with the faculty

The registration fee includes:

- Attendance at the nephrology refresher CME course,
 - Certificate of Attendance
 - Refreshments, lunches

For further information, grants and registration please visit us at

<http://www.bns-hungary.hu>

<http://www.facebook.com/bnshungary>

<http://twitter.com/BpNephrology>

Please send your application to bns@blaguss-congress.hu!

28th Budapest Nephrology School

26-30 August 2024



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Institute of Translational Medicine
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26 August 2024 – Opening ceremony



Prof. László Rosivall (Main Organizer)

*Prof. Péter Nyirády
(Dean of the Semmelweis University)*

26 August 2024 – Lectures

The plasma sodium is determined by spacetime, (Na_e and K_e).

J Clin Invest 1958
 INTERRELATIONS BETWEEN SERUM SODIUM CONCENTRATION, SERUM OSMOLALITY AND TOTAL EXCHANGEABLE SODIUM, TOTAL EXCHANGEABLE POTASSIUM AND TOTAL BODY WATER.
 By L. S. EDELMAN, J. LIGERMAN, M. F. GONZALEZ and L. W. BRESNOR
 (From the Department of Medicine, University of Chicago, School of Public Health and the Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pa., U.S.A.)

Edelman et al. introduced an explicit model to describe plasma [Na⁺] in a population as [Na⁺] = α(exchangeable Na⁺ + exchangeable K⁺)/(total body water) - β.

$$\text{Serum Na} = \frac{\alpha \text{Na}_e + \beta \text{K}_e}{\text{TBW} \cdot \text{H}_2\text{O}}$$

How was this done?
 O₂, Na⁺, K⁺

Treating BP in CKD: Magnitude of benefit

- Baseline BP: 186/121 mmHg
- Reduction in SBP: 43 mmHg
- Reduction in DBP: 30 mmHg
- Mean SBP drop with more intensive control: 55 mmHg
- Mean SBP drop with less intensive control: 8 mmHg
- NNT to prevent 1 AE: 2.8
- NNT to prevent 1 death: 17.5
- NNT to prevent 1 death: 167
- NNT to prevent 1 ESKD: 236
- NNT to prevent one primary event in SPRINT: 185

Kovesdy CP, JAMA Intern Med. 2017 Oct 1;177(10):1508-1507
 VA Cooperative Study Group, JAMA. 1997;282(13):1608-1614
 Malhotra R et al., JAMA Intern Med. 2017 Oct 1;177(10):1498-1505
 Lv et al., CMAJ 2017 Oct 1;177(10):1438-1505

Compensatory barrier response:

Metabolic response: ECV, ICV, Na⁺ Stores, Metabolic water, Body water, Amino acid exploitation?

Perelman School of Medicine
 UNIVERSITY OF PENNSYLVANIA

Development of nucleoside-modified mRNA vaccines: the history

Norbert Pardi, Ph.D.
 University of Pennsylvania
 Perelman School of Medicine
 Department of Microbiology

*Friedrich C. Luft, Germany
 Csaba P. Kovedy, USA
 Jens M. Titze, Singapore
 Norbert Pardi, USA*

26 August 2024 – Wine tasting dinner



Prof. Ernő P. Botos



27 August 2024 – Lectures



Janos Peti-Peterdi, USA
 Georgina Gyarmati, USA
 Katalin Susztak, USA
 Csaba P. Kovesdy, USA
 Kitty J. Jager, The Netherlands

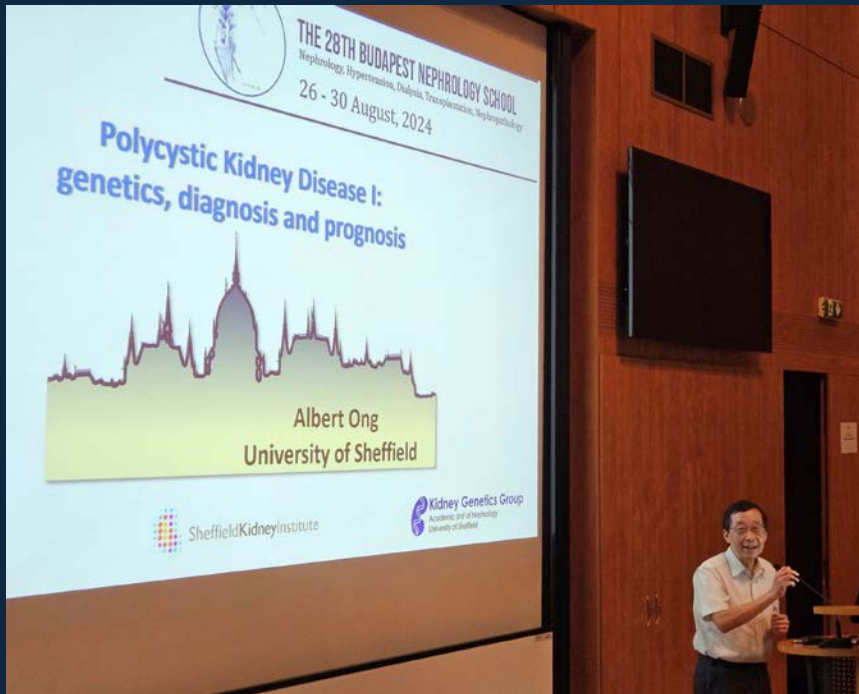


27 August 2024 – Visit of the historic building of the Semmelweis University

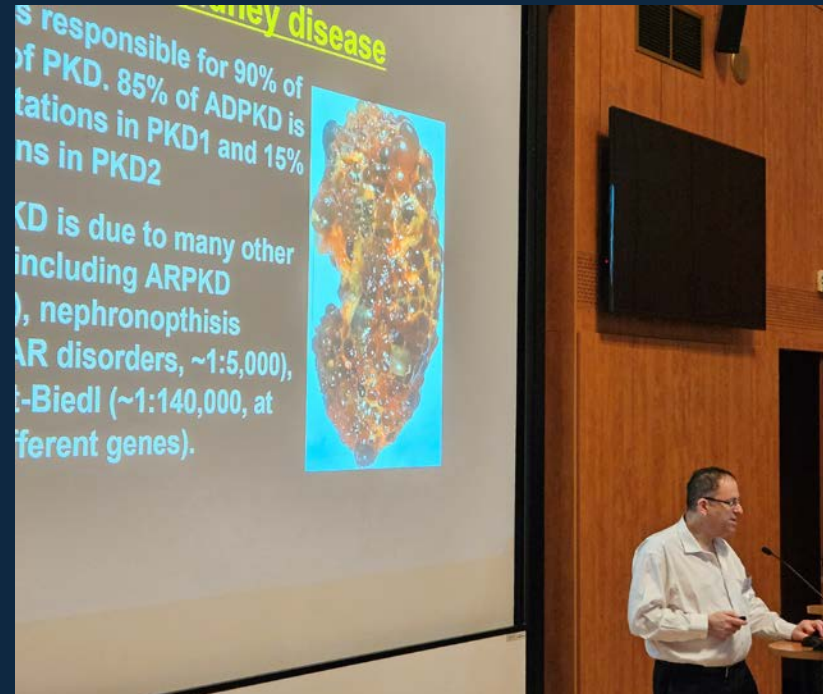
27 August 2024 – Boat tour on the Danube



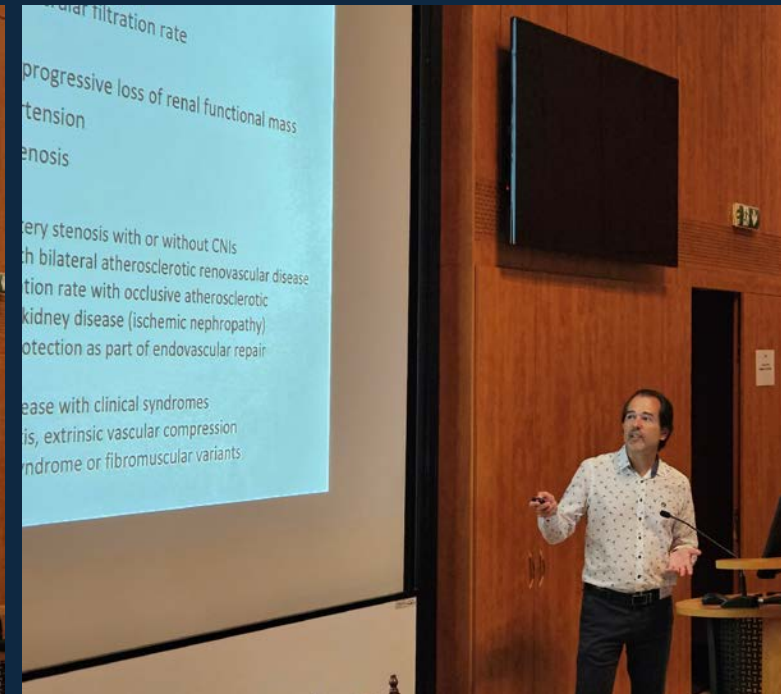
28 August 2024 – Lectures



Albert Ong, UK



Josh Lipschutz, USA

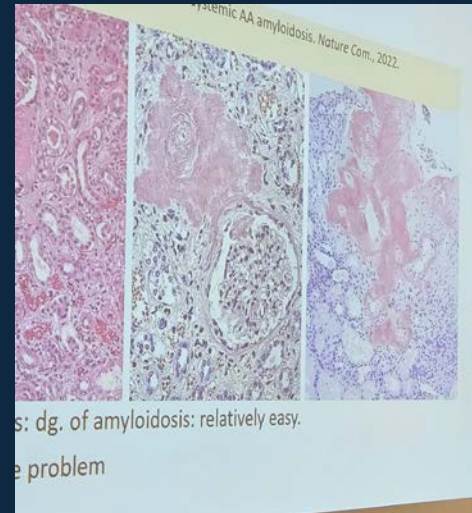


Peter Studinger, Hungary

28 August 2024 – Parliament Tour



29 August 2024 – Lectures

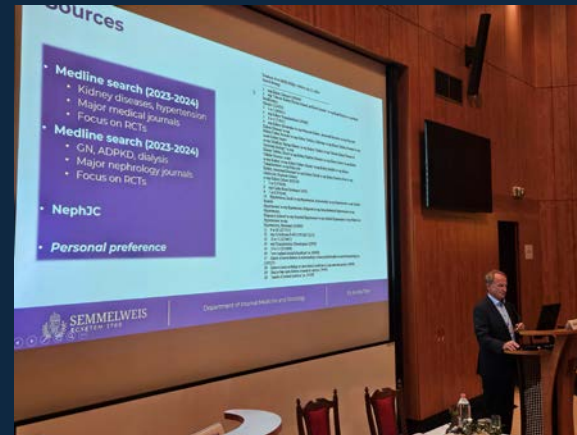
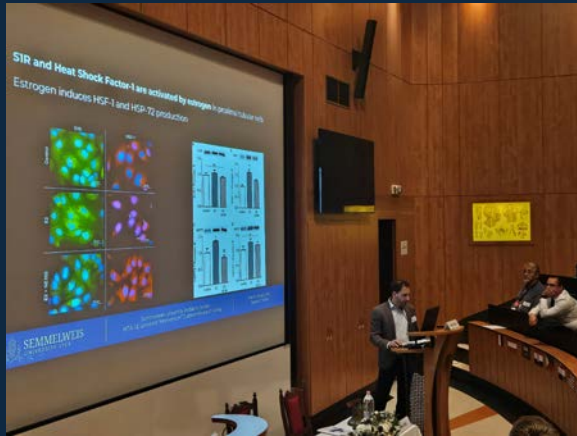


*Simin Goral, USA
Ondrej Viklicky, Czechia
Eva Honsova, Czechia*

29 August 2024 – Farewell dinner



30 August 2024 – Lectures



*Gábor Kökény,
Attila Mócsai,
András Tislér,
Ádám Hosszú,
Gergő A. Molnár,
Hungary*

*Safak Mirioglu,
Turkey*



THANK YOU
Budapest Nephrology School
2024!

Warm greetings! Thank you for the opportunity to be a part of the 28th Budapest Nephrology School. We had gained new learnings, adventures, and new friends, and collected unforgettable memories.



 **PHILIPPINES**