

in association with

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UNITED EUROPEAN  
GASTROENTEROLOGY

**ueg**

EPC TRAINING COURSE  
IN ASSOCIATION WITH UEG

PROGRAM

Translational interactive hands-on-training  
on epithelial ion transport in the GI tract

June 27-28, 2017  
Basic Medical Science Building  
Semmelweis University  
Budapest, Hungary  
[www.epc2017.hu](http://www.epc2017.hu)

## Detailed program

### DAY 1

**Tuesday**

**June 27, 2017**

**07:30–18:30**      **REGISTRATION**  
Registration Desk

**08:20-10:30**      **LECTURE SESSION 1**  
**Hevesy Room**      **Ion transport and its regulation**

08:20-08:30      **Welcome**  
*László Hunyady*  
dean of the Faculty of Medicine, Semmelweis University, Hungary  
*Gábor Varga*, Hungary

08:30-09:00      **Molecular physiology of ion transport in the pancreas**  
*Zoltán Rakonczay*, Hungary

09:00-09:30      **Purinergic signaling in epithelial transport**  
*Ivana Novak*, Denmark

09:30-10:00      **Calcium signaling in epithelial transport**  
*Alexei Tepikin*, United Kingdom

10:00-10:30      **Intracellular signaling in epithelial transport – beyond calcium**  
*Shmuel Muallem*, USA

**10:30-11:00**      **COFFEE BREAK AND TRANSFER**

**11:00-13:00**      **HANDS-ON-TRAINING – SESSION 1**

Each participant selects one Group from Groups 1-9 and then attends that course. This way each attendant may participate in four different hands-on-training session during the two days. In each Group the limit is 9 attendants per session, except where otherwise indicated.

<b>Group 1a</b>	<b>Isolation and culturing of human colonic crypts and gastric epithelial cells from biopsy samples</b> <i>Orsolya Galamb, Alexandra Kalmár and Béla Molnár, Hungary</i> only morning, INTERCONNECTED TO GROUP 1b
<b>Group 1b</b>	<b>Primary culture of GI epithelial cells – gastric and colorectal cells</b> <i>Anna Földes, Zoltán Zádori, Orsolya Galamb, Alexandra Kalmár, Hungary</i> only afternoon, INTERCONNECTED TO GROUP 1a
<b>Group 2</b>	<b>Isolation and culturing of pancreatic acinar cells and intra/interlobular ducts</b> <i>Petra Pallagi and Viktória Venglovecz, Hungary</i>
<b>Group 3</b>	<b>Interkingdom signalling between bacteria and epithelial cells</b> <i>Orsolya Dobay and Ákos Zsembery, Hungary</i>
<b>Group 4</b>	<b>Patch clamping of cells in tissue slices</b> <i>László Köles and Erzsébet Kató, Hungary</i>
<b>Group 5</b>	<b>Measurements of intracellular Ca<sup>2+</sup> concentration and membrane potential using fluorescence dyes in HAT-7 epithelial cells</b> <i>Kristóf Kádár, József Maléth, Hungary and Shmuel Muallem, USA</i>
<b>Group 6</b>	<b>Measurements of intracellular pH using fluorescence dyes in HAT-7 epithelial cells</b> <i>Róbert Rácz, Zoltán Rakonczay, Hungary and Ivana Novak, Denmark</i>
<b>Group 7</b>	<b>Measurement of inositol lipids using BRET-based biosensors in mammalian cell lines</b> <i>Péter Várnai and Rita Matuska, Hungary</i>
<b>Group 8</b>	<b><i>In silico</i> modeling of epithelial ion transport using MATLAB</b> <i>Martin Steward, United Kingdom and Beáta Kerémi, Hungary</i>
<b>Group 9</b>	<b>Studying ion channels using the patch-clamp technique</b> <i>László Csanády and Csaba Mihályi, Hungary</i>
<b>13:00-13:45</b>	<b>SANDWICH LUNCH AND TRANSFER</b>

<b>13:45-15:45</b> <b>Rooms TBA</b>	<b>HANDS-ON-TRAINING – SESSION 2</b>
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Each participant selects one Group from Groups 1-9 and then attends that course. Group 1 – Group 9 exactly as described above under Hands-on-training – Session 1.

<b>15:45-16:15</b>	<b>COFFEE BREAK AND TRANSFER</b>
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<b>16:15-18:15</b> <b>Hevesy Room</b>	<b>LECTURE SESSION 2</b> <b>Bicarbonate transport in health and disease</b>
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16:15-16:45      **Intestinal bicarbonate transport**  
*Ursula Seidler, Germany*

16:45-17:15      **Bile ductular ion transport processes related to bile production and cholestasis**  
*Peter Jansen, The Netherlands*

17:15-17:45      **Bicarbonate transport in amelogenesis**  
*Gábor Varga, Hungary*

17:45-18:15      **Bicarbonate transport in the airways**  
*Paul Quinton, USA*

<b>20:00</b>	<b>JOINT DINNER AT TRÓFEA GRILL RESTAURANT</b> Attendance included in the registration fee.
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Date:                      20:00 on Tuesday, June 27, 2017

Location:                Trófea Grill Restaurant

Address:                Király utca 30-32, Budapest, H-1061

Access:                 Take the M3 blue underground at the conference venue at 'Klinikák' station in the direction of 'Újpest-Központ' and get off at 'Deák Ferenc tér'. The restaurant is in 500 meters walking distance from the underground station. Please arrive to the restaurant by 20:00.

## DAY 2

**Wednesday**

**June 28, 2017**

**08:00–19:00**      **REGISTRATION**  
Registration Desk

**08:25-10:25**      **LECTURE SESSION 3**  
Hevesy Room      **Ion transport related disorders and their targeting**

08:25-08:55      **Intestinal disorders and transport processes**  
*Stephen Keely, Ireland*

08:55-09:25      **Role of transporters in liver disease**  
*Peter Jansen, The Netherlands*

09:25-09:55      **CFTR as a key transporter in epithelial health and its targeting in disorders**  
*Michael Gray, United Kingdom*

09:55-10:25      **Impaired bicarbonate secretion and bacterial infections in the airways**  
*Ákos Zsembery, Hungary*

**10:25-10:50**      **COFFEE BREAK AND TRANSFER**

**10:50-12:50**      **HANDS-ON-TRAINING – SESSION 3**  
Rooms TBA

Each participant selects one Group from Groups 1-9 and then attends that course. Group 1 – Group 9 exactly as described above under Hands-on-training – Session 1.

**12:50-13:30**      **SANDWICH LUNCH AND TRANSFER**

**13:30-15:30**      **HANDS-ON-TRAINING – SESSION 4**  
Rooms TBA

Each participant selects one Group from Groups 1-9 and then attends that course. Group 1 – Group 9 exactly as described above under Hands-on-training – Session 1.

**15:30-16:00**      **COFFEE BREAK AND TRANSFER**

<b>16:00-18:30</b> Szent-Györgyi Room	<b>LECTURE SESSION 4</b> <b>JOINT SESSION WITH THE 49<sup>TH</sup> EPC MEETING</b> <b>Pancreatic disease in relation to transport disorders</b> <b>and their targeting</b>
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| 16:00-16:30 | <b>Molecular genetics in pancreatitis</b><br><i>Miklós Sahin-Tóth, USA</i>  |
| 16:30-17:00 | <b>Cell biology and genetics of pancreatic ductal adenocarcinoma</b><br><i>Paco Real, Spain</i>                   |
| 17:00-17:30 | <b>Potential transport process targets in pancreatitis and pancreatic cancer</b><br><i>Julia Mayerle, Germany</i> |
| 17:30-18:00 | <b>CFTR, as a target prototype in pancreatic translational research</b><br><i>Peter Hegyi, Hungary</i>            |
| 18:00-18:20 | <b>Final discussion and conclusion of the course</b><br>(involving a panel of faculty members)                    |
| 18:20-18:30 | Participants fill out a questionnaire to evaluate each presentation and the quality of the whole meeting.         |