

Úterý 19. června 2018/ Tuesday June 19, 2018

Velká zasedací místnost děkanátu 1. LF UK, Na Bojišti 3, Praha 2  
Large meeting room of Dean's Office Building, 1. LF UK, Na Bojišti 3, Praha 2



I. LÉKAŘSKÁ  
FAKULTA  
Univerzita Karlova

## 8.45 Registration for students

### 9.00 – 9.45 The role of bilirubin in cell signaling

*The different molecular events in which bilirubin is involved will be reviewed and translated in the old symptom of jaundice. The interface of molecular and clinical approach will hopefully demonstrate that bilirubin is not only the end product of heme metabolism but rather an important messenger molecule in the body.*

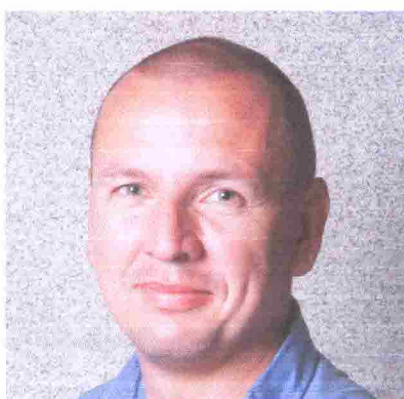
#### Claudio Tiribelli

Is the Scientific Director of the Italian Liver Foundation in Trieste, Italy, and former full professor of Gastroenterology at the University of Trieste. He is visiting professor at First Faculty of Medicine, Charles University, Prague. Dr. Tiribelli's lab follows several lines of research on liver pathophysiology bringing together molecular mechanisms with clinical aspects. His contribution on the mechanism of bilirubin role in cellular signaling paved the way to understand how bilirubin may be crucial in several molecular pathways. Tiribelli's lab is actively involved in international cooperation. For his contributions in research and medicine he received honorary degrees in several countries including Argentina, Brazil, India, Indonesia, USA and European countries. He serves as editor of the Hyperbilirubinemia & Neonatal Jaundice Section of Pediatric Research.



### 10.00 – 10.45 The protective effects of bilirubin - Lessons from the clinical studies.

*Mildly elevated serum bilirubin concentrations, such as in Gilbert syndrome (benign hyperbilirubinemia) are associated with protection from oxidative stress-mediated and inflammatory diseases, such as atherosclerosis, certain cancers, inflammatory bowel disease, or neurodegenerative and other autoimmune diseases. The contrary is also true – low systemic bilirubin concentration, even within the current physiological range, predispose to increased risk of these diseases.*



#### Libor Vitek

Is professor of medical chemistry and biochemistry at the Institute of Medical Biochemistry and Laboratory Diagnostics of the First Faculty of Medicine of Charles University and General University Hospital and head of the Laboratory for Research of Liver Diseases and Heme Metabolism. His research focuses mainly on the bilirubin metabolism and the role of bilirubin in pathophysiology of diseases. For the contributions in the field of hepatology research he received several national and international awards.

Přednáškové odpoledne je součástí kurzu „Novinky v biomedicínském výzkumu“, který je jeden z doporučených povinně volitelných kurzů pro Ph.D. studenty oboru Biochemie a patobiochemie (Oborová rada 04) a Fyziologie a patofyziologie člověka (Oborová rada 05). Účastníci na konci kurzu získají zápočet. Kurz je sestaven z přednášek zahraničních a domácích světově uznávaných odborníků zabývajících se molekulovými mechanismy etiologie, patogeneze a terapie chorob. Vítání jsou i studenti jiných oborů a zájemci z řad vědeckých pracovníků a lékařů.

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