



Katedry biochémie a genetiky PriF UK
a občianske združenie *NATURA*



Vás pozývajú na **110. prednášku** v rámci Kuželových seminárov:

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SCIENCE BEHIND CLINICAL LABORATORY TESTING: TO TEST OR NOT TO TEST?

ktorá sa uskutoční **11. mája 2018** (piatok) o **13:00**

v miestnosti CH1-222 Prírodovedeckej fakulty UK

<http://www.naturaoz.org/seminare.html>
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Maja Chloupková, PhD.

Maja's Alma Mater is Comenius University where she received her Master's degree in Biochemistry. She then received her PhD from Slovak Academy of Sciences in Biological Sciences under the mentorship of Dr. Štefan Kužela and Dr. Katka Luciaková. She continued with postdoctoral studies in the United States, at Yale University and University of Colorado, Health Sciences Center. During these studies, she participated in research devoted to mitochondrial processing proteases and propionic acidemia disease caused by mitochondrial propionic CoA carboxylase. She then moved to Oregon Health and Science University in Portland, Oregon, where she also received her faculty research position. There her research focused on iron overload disease in human.



During her research of human disease, she was exposed to clinical laboratory testing and its importance. This was most apparent when she was part of a group discussing development of iron assays in patients' serum. She thus received a Clinical Laboratory Science degree from Oregon Health and Science University (MLS(ASCP)^{CM}) and later passed her specialty board exam in Clinical Chemistry (SC(ASCP)^{CM}). She currently works as Chemistry Technical Specialist at Legacy Laboratory Services in Portland. There she oversees immunochemistry, prenatal screening and general chemistry sections. Maja has been a regular speaker at local, regional and national Clinical Laboratory Science meetings and symposia. She is also a member of ASCLS Consumer Report team which periodically answers patients' questions regarding clinical laboratory testing nation- and worldwide.

Lecture annotation:

Clinical laboratory is often considered to be a place where routine work with little creativity is needed. This is true to some degree because clinical laboratory environment is highly regulated, and any deviation from the standard operating procedure poses danger to the patient. But advances in basic research and their application to human disease have caused that clinical laboratory science became an extremely dynamic field that requires deep scientific knowledge, creative thinking, constant education and excellent team work. This semi-interactive presentation is designed to show that research and clinical laboratories use similar concepts in daily routine. In addition, through case studies, this presentation will discuss strategies used by clinical laboratory for new process implementation, new test development and validation, instrument performance control, and correct interpretation of test results to physicians. All these aspects make work in modern clinical laboratories not only challenging but also highly attractive.