



2nd COORDINATION MEETING

20th – 23rd November 2016

Košice, Slovakia

J. Majernik

Košice, 22.11.2016



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of the European Union



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Department of Medical Informatics

- ✿ since 1990 – first computer classroom
- ✿ Medical Informatics, Evidence Based Medicine, Biostatistics, IS in Medicine, Computer Biometrics ...
- ✿ eLearning, telemedicine, videoconferences, human motion analysis, statistical evaluation of experimental data, virtual patients, eAssessment, ...



MEFANET:: Portals of multimedia support in education of clinical and health care disciplines and the **Central Gateway**

The unique solution across MEFANET



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Traditional education

- textbooks and printed materials go out of date quickly
- revisions and reprints are time and cost demanding
- **multimedia** – effective tool
- a lot of information disseminated across the study programs
- problem to be solved – practical utilization in pedagogical process



- implementation of modern technologies
- used only as addition to traditional teaching form
- fully functional didactic tools
- to use effectively



trends: visualization, electronic processing, archiving, providing

demonstration: supported by visual information, often clinically sensitive

Activities

main areas:

- **scientific background**

- special and scientific topics, integrated conception, motivation of professionals, outputs (records, e-books, text books, journals, ...)

- **technical background**

- HW and SW equipment, methods, services, users' skills, technological demands, ...

*Can we cross the borders
of the faculty/university?*



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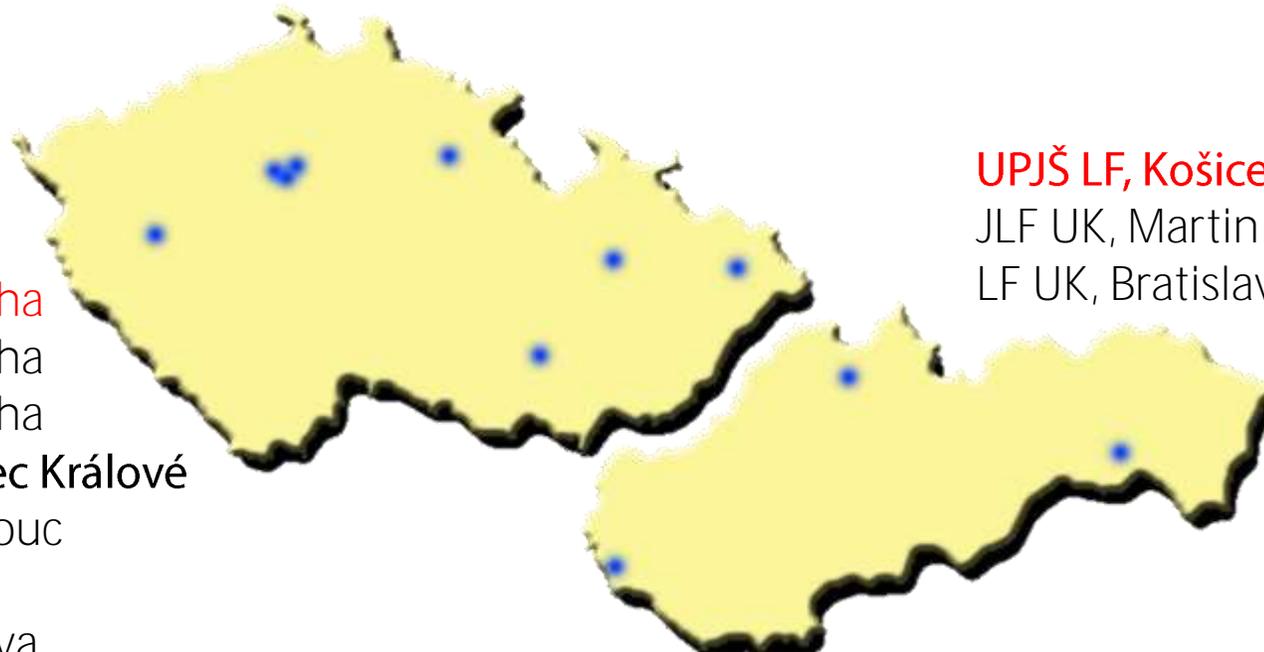
Medical faculties in MEFANET

participated faculties

- formerly: faculties of medicine (7 CZ and 3 SK)
- present: all faculties of medicine and health care related institutions in Czech republic and Slovakia



LF MU, Brno
1. LF UK, Praha
2. LF UK, Praha
3. LF UK, Praha
LF UK, Hradec Králové
LF UP, Olomouc
LF UK, Plzeň
LF UK, Ostrava



UPJŠ LF, Košice
JLF UK, Martin
LF UK, Bratislava



Considering the right platform



- two modes of integration:
 - to create communication interface in own (already existing) platform/portal to ensure exchange of data between portal and central gate
 - to implement and adopt portal platform developed by Institute of Biostatistics and Analyses at Masaryk University in Brno (CZ) with its independent management and subsequent administration according to the needs of particular faculty
- individual portals are administered independently and fully respects the particular faculty's needs
- RESULT: 11 standalone instances of the same software
- unique access through **central gate**



Users of portal platforms



- **academic staff** to publish their pedagogical works and to share their electronic educational materials
- **authors** of multimedia education tools to communicate with the users of these outputs
- persons involved in **lifelong learning** of physicians and health care professionals
- **students** not only from medical faculties





- <http://portal.lf.upjs.sk> [ISSN 1337-7000]

Multimedia support in the education of clinical and health care disciplines
in Portal of Pavol Jozef Šafárik University's Faculty of Medicine in Košice

Multimedia | Educational works | Lectures | Terms of use | About

Slovak version | Search | Educational websites | Digital audio/video | Presentations | Elearning courses | Casuistics in image | Login | Submit contribution | Download | Text version | Printable version

Welcome to Portal of Pavol Jozef Šafárik University in Košice Faculty of Medicine.

This portal is the official platform of Pavol Jozef Šafárik University in Košice Faculty of Medicine (UPJŠ LF) for publication of electronic versions of educational works and multimedia materials to support education in medical disciplines. Its main objective is to make all electronic teaching materials which have been created at UPJŠ LF available. Apart from publication of teaching tools, the portal provides space and technical support for these materials to be published on-line.

[Registration instructions](#)

Content categorized according to fields of medicine

Anesthesiology and Intensive Care Medicine (0)	Genetics (0)	Neurology (0)	Physiology and Pathophysiology (0)
Anatomy (0)	Dermatology (0)	Neurology (0)	Psychiatry, Psychology, Sociology (0)
Biology (0)	Haematology (0)	Neurosurgery (0)	PUBLIC HEALTH CARE, SOCIAL MEDICINE (1)
Biophysics (0)	Health Care Sciences (0)	Nuclear Medicine (0)	Radiology and Imaging (0)
Cardiology, Angiology (0)	Immunology, Embryology (0)	Obstetrics, Gynaecology (0)	Rehabilitation, Physiotherapy, Occupational Therapy (0)
Cellular (1)	Immunology, Allergy (0)	Occupational Medicine and Toxicology (0)	Respiratory Medicine (0)
Dermatology (0)	Infectology (0)	Oncology, Radiation Therapy (0)	Rheumatology (0)
Diabetology, Dietetics (0)	Internal Medicine (0)	Ophthalmology and Optometry (0)	Sports Medicine (0)
Emergency Medicine (0)	Laboratory Diagnostics (0)	Other (0)	Surgery, Traumatology and Orthopaedics (0)
Endocrinology, Metabolism (0)	Medical Ethics and Law (1)	Otorhinolaryngology (0)	Urology (0)
Epidemiology, Preventive Medicine, Hygiene (0)	Medical Chemistry and Biochemistry (7)	Pediatrics, Neonatology (0)	
Gastroenterology and Hepatology (0)	Medical Informatics and Information Science (0)	Pathology and Forensic Medicine (1)	
General Practice Medicine (0)	Microbiology (0)	Pharmacology (0)	

[anatomy](#) [biochemistry](#) [blood supply](#) [cranial nerves](#) [digestive system](#) [head](#) [innervation](#) [kidney](#) [muscles](#) [neck](#)
[nerves](#) [posterior mediastinum](#) [skull](#) [throat](#) [vessels](#) [topography](#) [upper limb](#) [vessels](#)

Digestive system 2 (Stomach, Small Intestine)

The presentation focuses on gross anatomy of stomach and small intestine. Throughout this presentation, external features of the stomach, duodenum, jejunum, ileum and their wall and mucosa are provided. Radiological images and clinical correlations are also included. Illustrations are an integral part of the presentation and are abundant throughout the material, they are used to simplify the study.

author: [RADY, JANA, MSc, PhD.](#) | discipline: [anatomy](#) | published on: 13.3.2019 | last modified on: 23.3.2019

Virtual Patient - Survey

Project CROEUS aims to bring new technologies into the education processes at medical faculties. One of the project's activity is to establish a system to operate virtual patients. To do this, "respecting teachers" as well as students' preferences in this area we prepared a survey. The survey tries to collect information about most preferred features of such systems and you can participate on it at <http://www.upjs.sk>

author: [RADY, JANA, MSc, PhD.](#) | published on: 24.3.2019 | last modified on: 24.3.2019

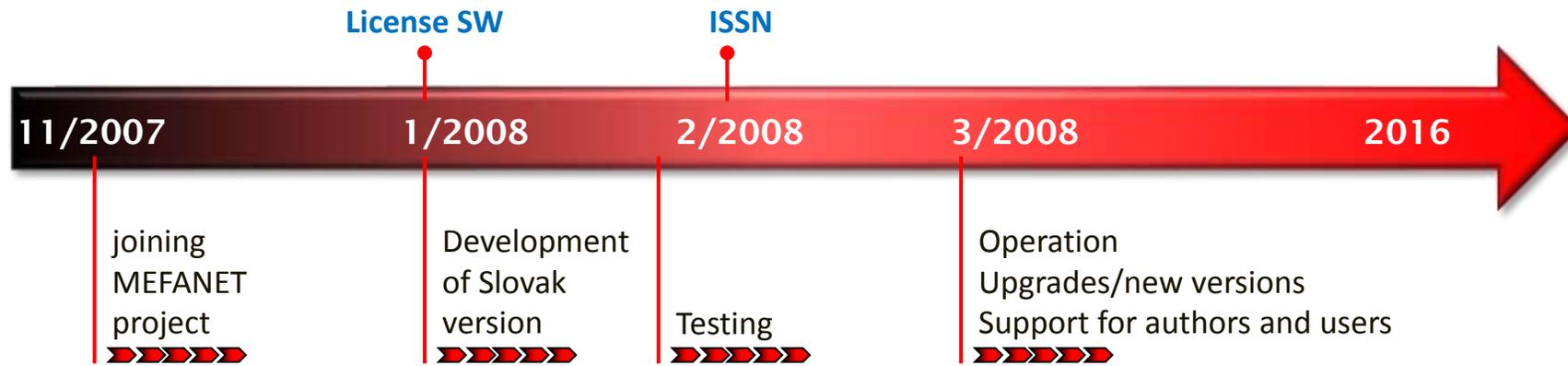
Practical exercises from biochemistry (for Dental Medicine)

The laboratory consists of two developed for the dental students of medicine by practical

Terms of use



- Portal development



- 04. 12. 2007 ver. 1.0
- followed by ver. 1.1 , ver. 1.2 – to recent ver. 1.8
- improvements and new functionalities



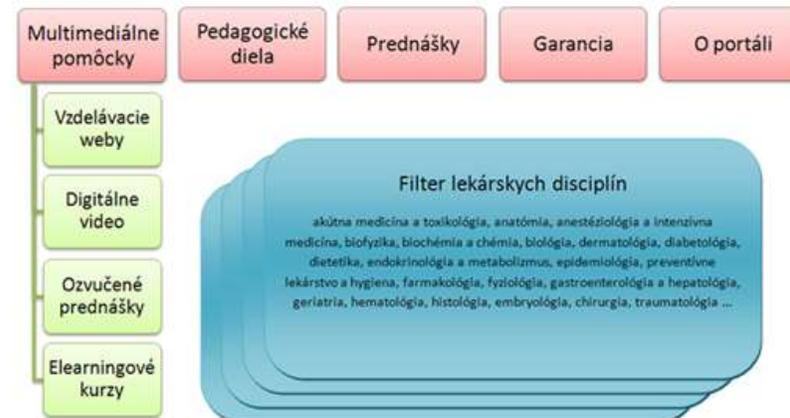


Horizontal menu – content part (sections of the portal)

Vertical menu – types of multimedia tools/materials

Medical disciplines filter – the only obligatory structure for all portals

Searching engines





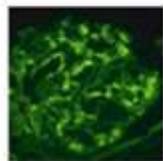
descriptive article

- public part available to everybody
- annotation picture
- annotation
- keywords
- extension text (more description)

attachments

- accessibility according to the decision of the author
- published in the form of links in the body of the article

Schönleinova-Henochova nefritída - zvláštnosti klinického priebehu



Autori v prehľadnom článku uvádzajú epidemiológiu, klinický priebeh a komplikácie Schönleinovej-Henochovej purpury, ktorá je najčastejšie sa vyskytujúcou vaskulitídou v detskom veku. Zameriavajú sa osobitne na Schönleinovu-Henochovu nefritídu, vyzdvihujú prínos renálnej biopsie pre diagnostiku a prognózu. Analyzujú jednotlivé liečebné postupy a hodnotia ich efektívnosť podľa medicíny založenej na dôkazoch. V závere opisujú výsledky transplantácie obličiek u chorých so Schönleinovou-Henochovou nefritídou.

autor: [prof. MUDr. Ľudmila Podracká, CSc.](#), prof. MUDr. Miroslav Anton Šašíka, DrSc. | publikované: 8.4.2008 | posledné úpravy: 5.5.2008



Access to the educational material can be specified for:

- anonymous users
- registered users
- MEFANET users
- university users
- faculty users
- personal request/demand to the author

Only authors decide and specify what kind of user rights will be applied in their education materials.





E-publishing system – central gate

Portál vzdělávací sítě lékařských fakult MEFANET

mefanet

automatizace
infarkt krev
laparoskopie
mikroskop
mikroskopie operace ori
ošetřovatelství
patologie
postup psychiatrie
robot srdce statistika
videa
nová učebnice lékařů

Naposledy prohlíželi
1) Nová učebnice učebnice lékařské chemie a biochemie, letní semestr
2) Tabulky enzymů v tabulce lékařů

Přihlásit se k MEFANETmailu
e-mail:
Odeslat

Leukoencefalopatie indukovaná cytostatickou léčbou

Autori prezentují přehledový článek Leukoencefalopatie indukované chemoterapií. Tato klinická jednotka představuje široko-rahografický syndrom heterogenní etiologie, který je součástí spektra na základě podobných neuroobrazovacích (MRI) nálezů. V přehledu je také zahrnut pod různými názvy, např.:

- Metotraxátem indukovaná neurotoxická leukoencefalopatie
- Reverzibilní posterior leukoencefalopátní syndrom (RPIS)
- Posterior reversible encephalopathy syndrom (PRES)

Žádný z těchto názvů není uspokojivý; syndrom není vždy reverzibilní a není vždy omezený pouze na bílou hmotu mozku nebo do zadních částí mozku. Může se vyskytovat v jakémkoliv věku.

Součástí tohoto tutoriálu jsou i tři vlastní kazetovky dětí s akutní myelofibrotickou leukémií, u kterých různé protokoly.

autor: Prof. MUDr. Medka Miroslav, CSc., MUDr. Ivana Michálková | LEJF | obor: Farmakologie, Diagnostika, Neurologie, Radiologie a zobrazovací metody | kategorie: Tutoriál | klíčová slova: Leukoencefalopatie indukovaná cytostatickou léčbou, metastázy, leukoencefalopatie, leukoencefalopatie indukovaná chemoterapií, kategorie: Praktická cvičení | příloha: 1 | zobrazeno: 39x | publikováno: 20.9.2011 | poslední úprava: 1.11.2011

Lékařská chemie, biochemie a molekulární biologie. Praktická cvičení I a II.

Přehledová skripta pro výuku praktických cvičení z lékařské chemie, molekulární biologie a biochemie vycházejí z textu publikovaného v roce 2004. Od té doby došlo k řadě různých změn a tak bylo nutno texty upravit pro stávající potřebu. V oblasti kopírování ve výuce uvedených oborů byla některá čistě teoretická témata vypuštěna, zejména ta, která budou probírána na seminářích. Každak jiné kapitoly byly doplněny.

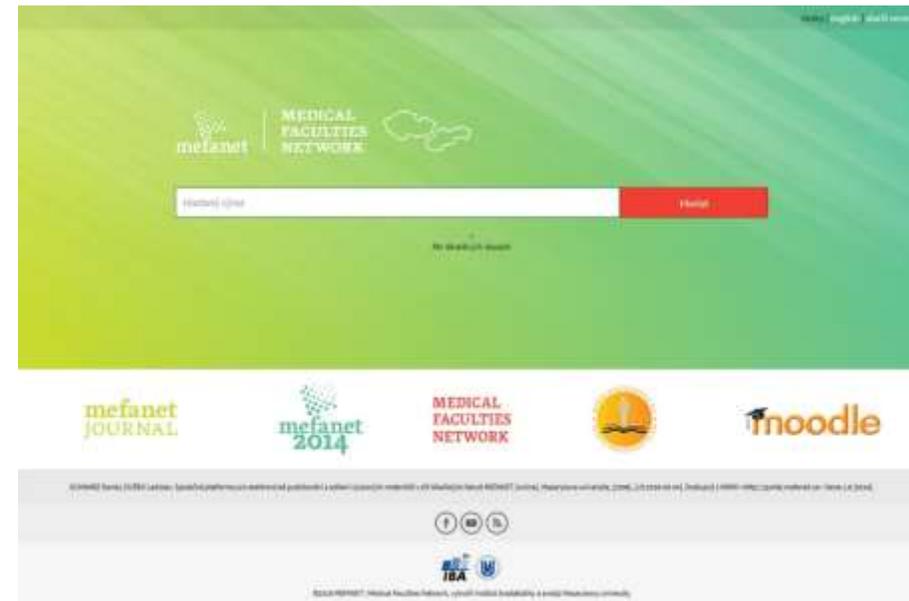
autor: Soňa Štěrbová, lékařská chemie, biochemie a molekulární biologie | LEJF | obor: Lékařská chemie a biochemie | kategorie: Praktická cvičení | klíčová slova: Lékařská chemie, biochemie a molekulární biologie, Praktická cvičení | příloha: 2 | zobrazeno: 39x | publikováno: 20.9.2011 | poslední úprava: 1.11.2011

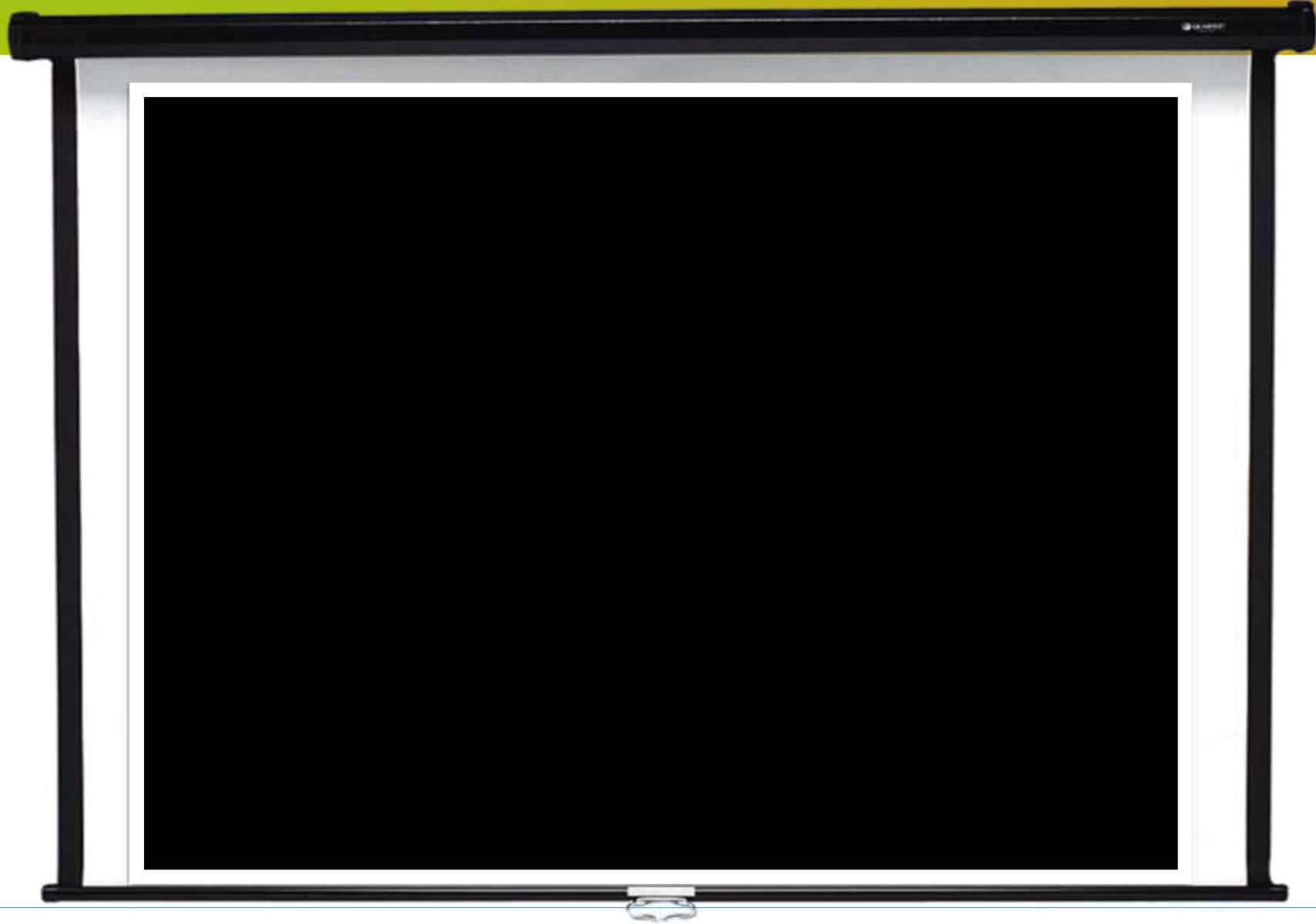
Laboratorní úlohy z lékařské biofyziky

Materiál přehledu novovydané verzi laboratorních úloh pro praktická cvičení z lékařské biofyziky na lékařské fakultě v Hradci Králové. Jde o kurzy postavené na LMS Moodle v 1.5, a to ve formě klasické kombinované a kurzy se strukturou modernějšího e-learningu. Součástí kurzu je text celkový souhrnný materiál ve formě Moodle-knihy či Moodle-přednáška v kombinaci se souhrnným materiálem ve formě MSL. Pro zájemce z německé přílohy je přiložen elektronický protokol s možností automatického odesílání dat.



- Tool to **publish** electronic education materials (not to create content of individual education materials)
- Intended to share the best quality outputs across faculties from **one central place**.
- Secured access to shared materials depending on authors decision.
- ISSN 1803-6619





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Portals and Central gateway

- platforms are not designed to replace LMS and/or similar systems
- their character is tend to be an e-publication system rather than the digital library and/or encyclopedia
- local instances send only reviewed works data to the MEFANET Central gateway
- modern ICT
 - opportunities to produce qualitative electronic educational works
 - motivate teachers to use them
- organizing - difficult process:
 - technical part (finances)
 - content (willingness of teachers to cooperate)
- overcoming the problems – contribution not only for education



Thanks for your attention



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