

http://pathorama.ch/

Katharina Glatz

Pathorama: supporting
e-learning by
virtual microscopy

Institut für Pathologie Basel



Pathorama - Welcome - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://pathorama.ch/

PATHORAMA About Is it for me ? Tell a friend Contact

vSlides
vCollections
PathoPic
HiPaKu
ZyPaKu
Autopsy Cases
Quizzes
Games
vMic 2002-2007 †

Welcome to Pathorama, one of the most extensive and freely accessible resources devoted to pathology. Pathorama provides you with high quality images and virtual slides for teaching and self-instruction covering a wide range of topics in all subspecialties of surgical pathology and cytology. Various courses, slide seminars, quizzes, and learning games for both students, surgical pathologists, and cytopathologists are available.

Move your mouse over the list to get detailed information about each tool!

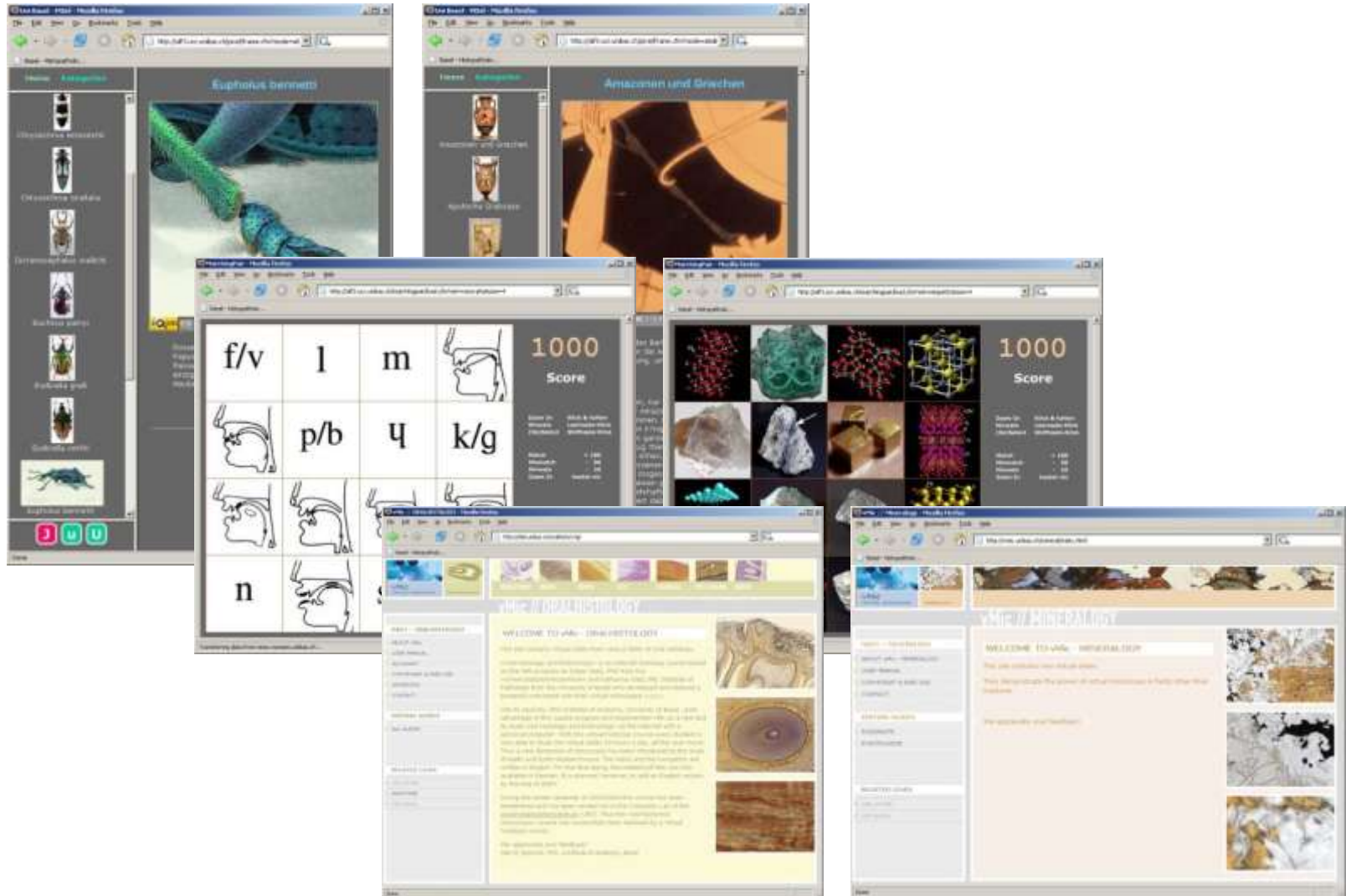
Featured Collection

Renal Tumours in Children and Adults

Universität Basel, Institut für Pathologie, 2007

Done

Not only for Pathologists



Open Educational Resources

Human Pathology (2007) 38, 1585–1586



www.elsevier.com/locate/humpath

Editorial

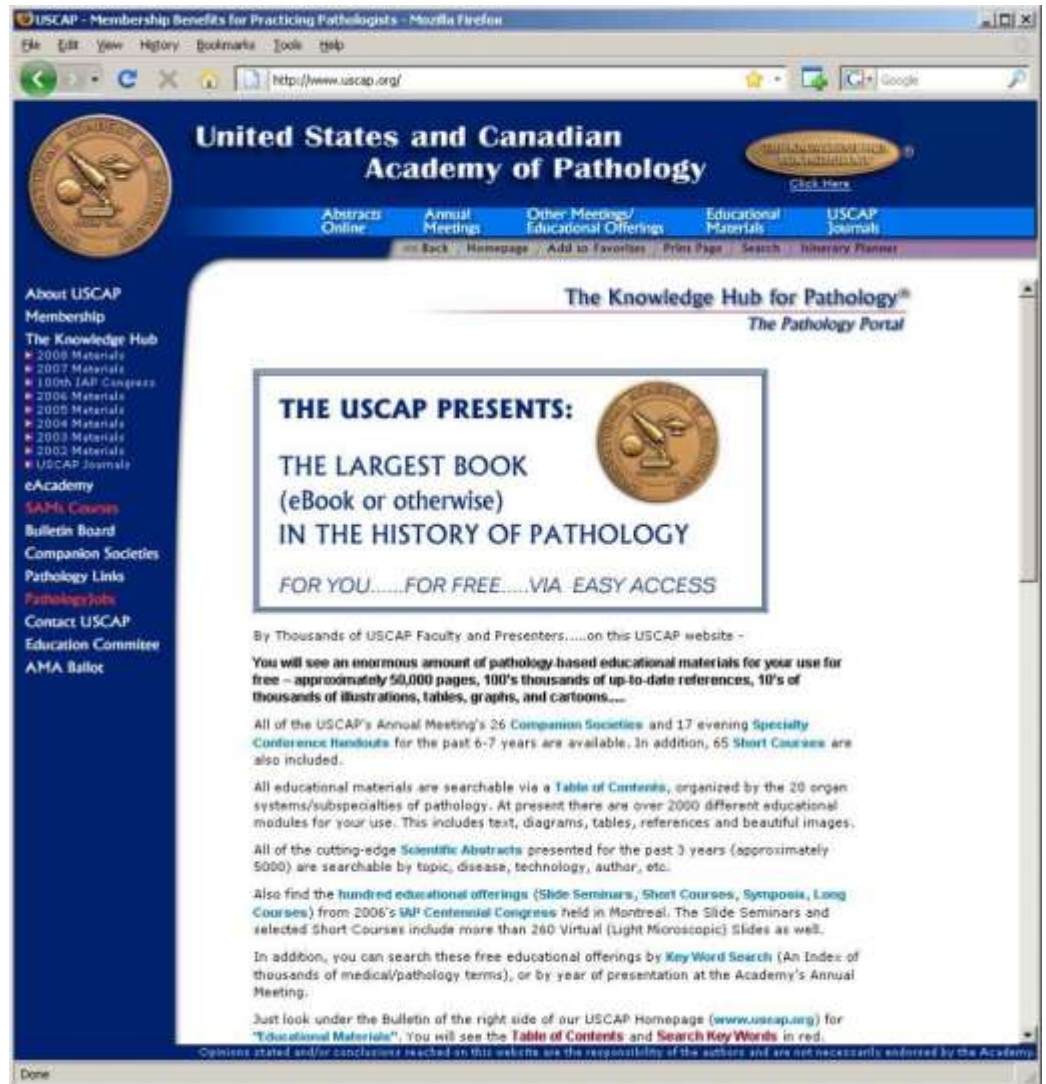
**“The Knowledge Hub for Pathology”—the USCAP’s
“Pathology Commons”—wide open—fully stocked and free
to all who wish to visit the Website!**

Human Pathology (2007) 38, 1585-1586

Hardwick DF

<http://www.uscap.org>

Open Educational Resources

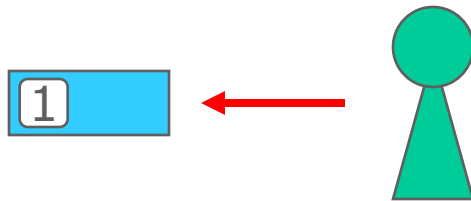


The screenshot shows the homepage of the United States and Canadian Academy of Pathology (USCAP). The page features a navigation menu with links for Abstracts Online, Annual Meetings, Other Meetings/Educational Offerings, Educational Materials, and USCAP Journals. A prominent banner reads "The Knowledge Hub for Pathology® The Pathology Portal". Below this, a central box highlights "THE USCAP PRESENTS: THE LARGEST BOOK (eBook or otherwise) IN THE HISTORY OF PATHOLOGY FOR YOU.....FOR FREE.....VIA EASY ACCESS". The page also includes a sidebar with links for About USCAP, Membership, The Knowledge Hub (with a list of materials from 2003 to 2008), eAcademy, SAMs Courses, Bulletin Board, Companion Societies, Pathology Links, Pathology Jobs, Contact USCAP, Education Committee, and AMA Balloz. The footer contains a disclaimer about the responsibility of the website's content.

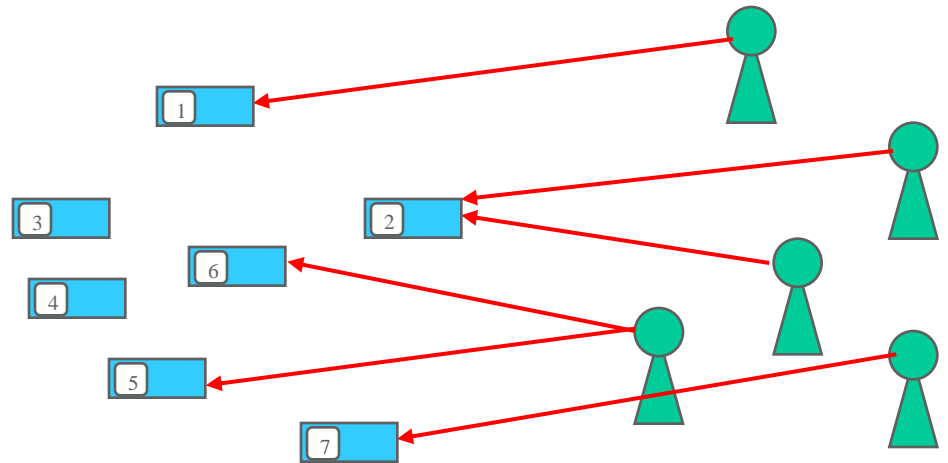
<http://www.uscap.org>

Virtual slides since 2007

Advantages of Virtual Slides



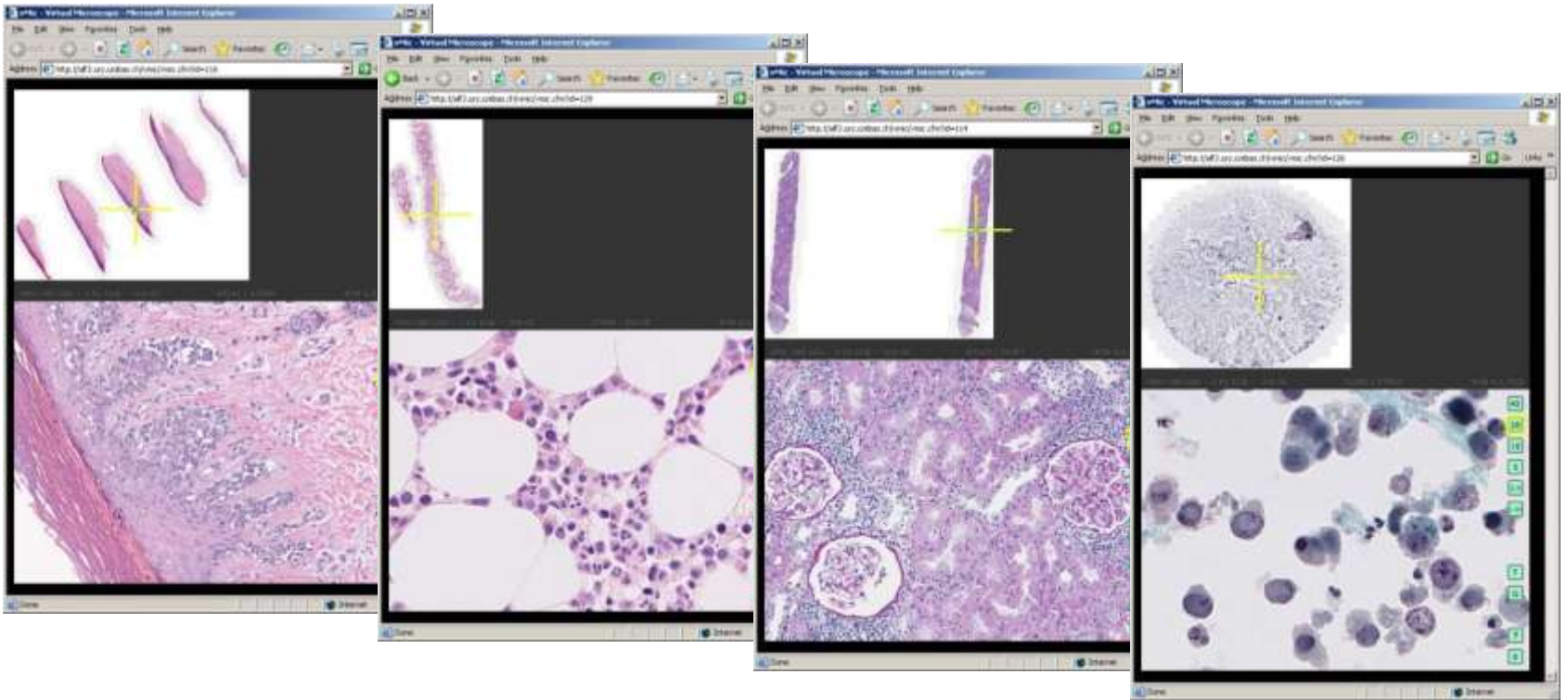
"traditional" 1:1



vSlides n:m

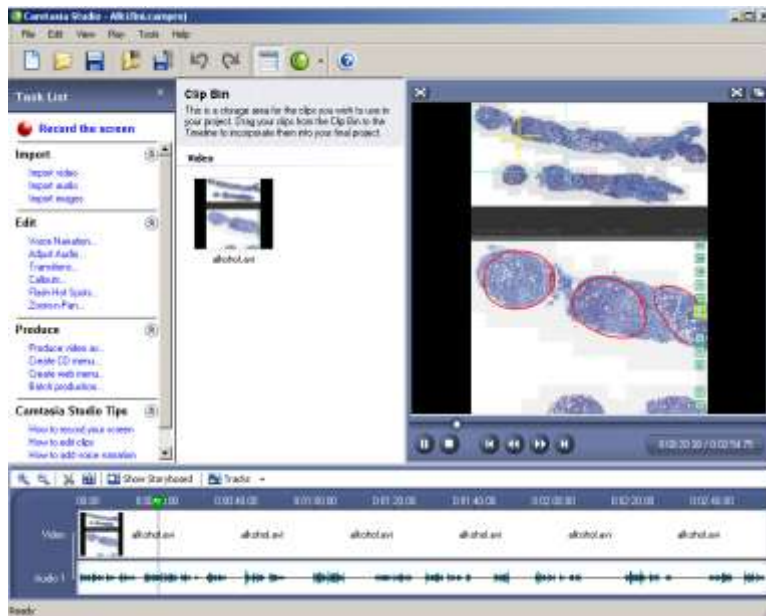
Advantages of Virtual Slides

Suitable for small biopsies and cytology



Added Value

New applications: Slide video

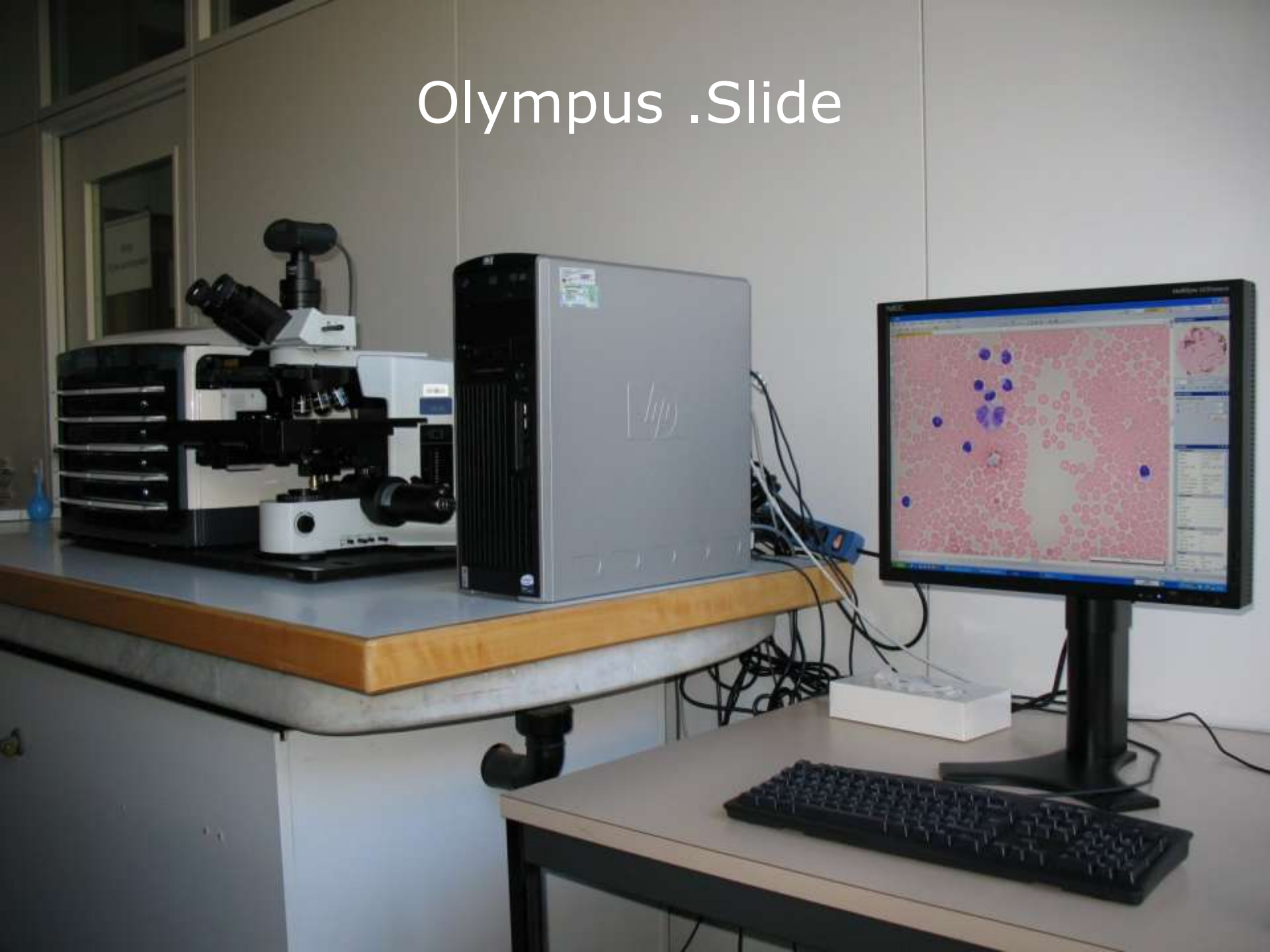


Camtasia Studio™

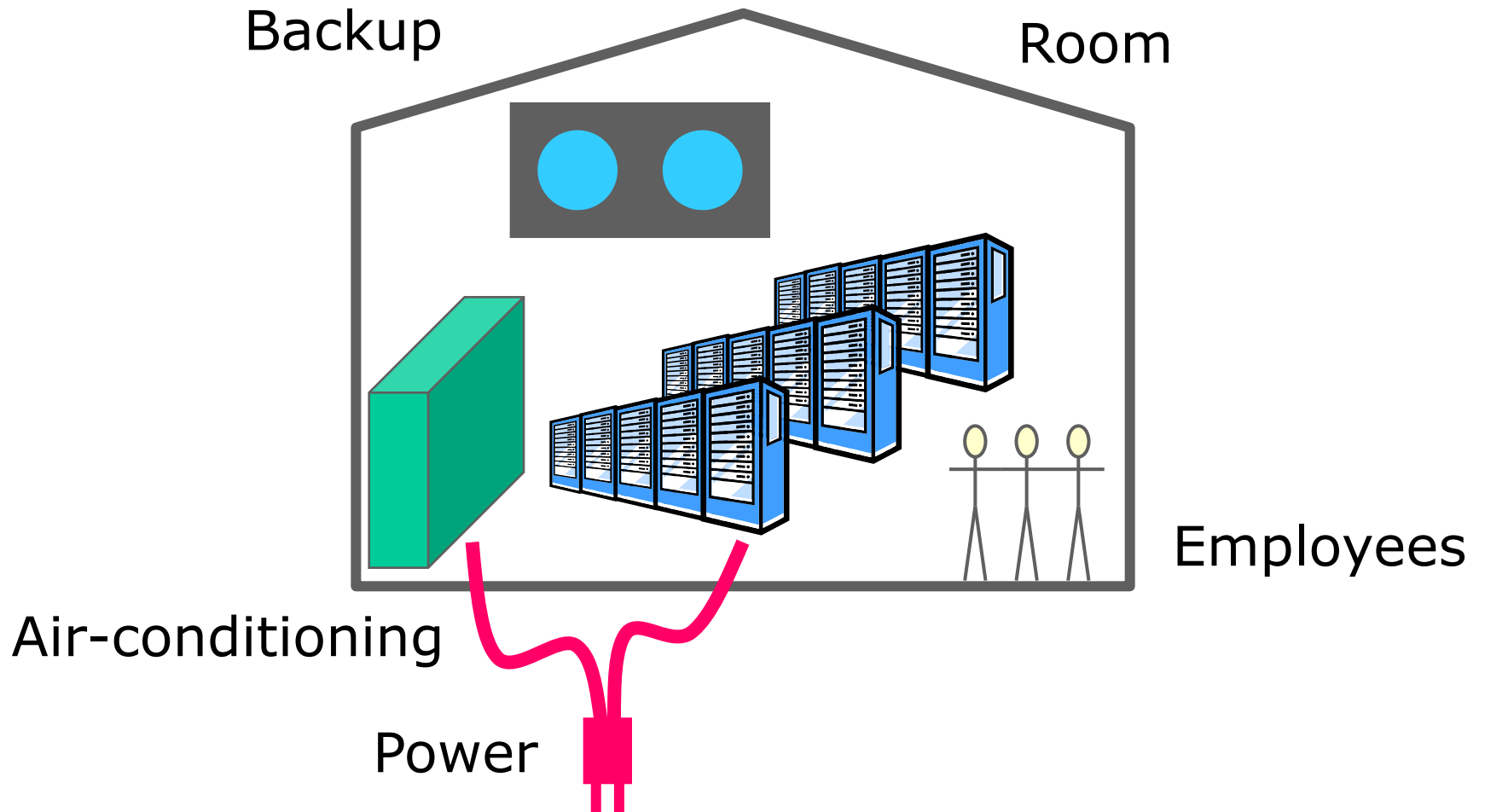


Symposium™

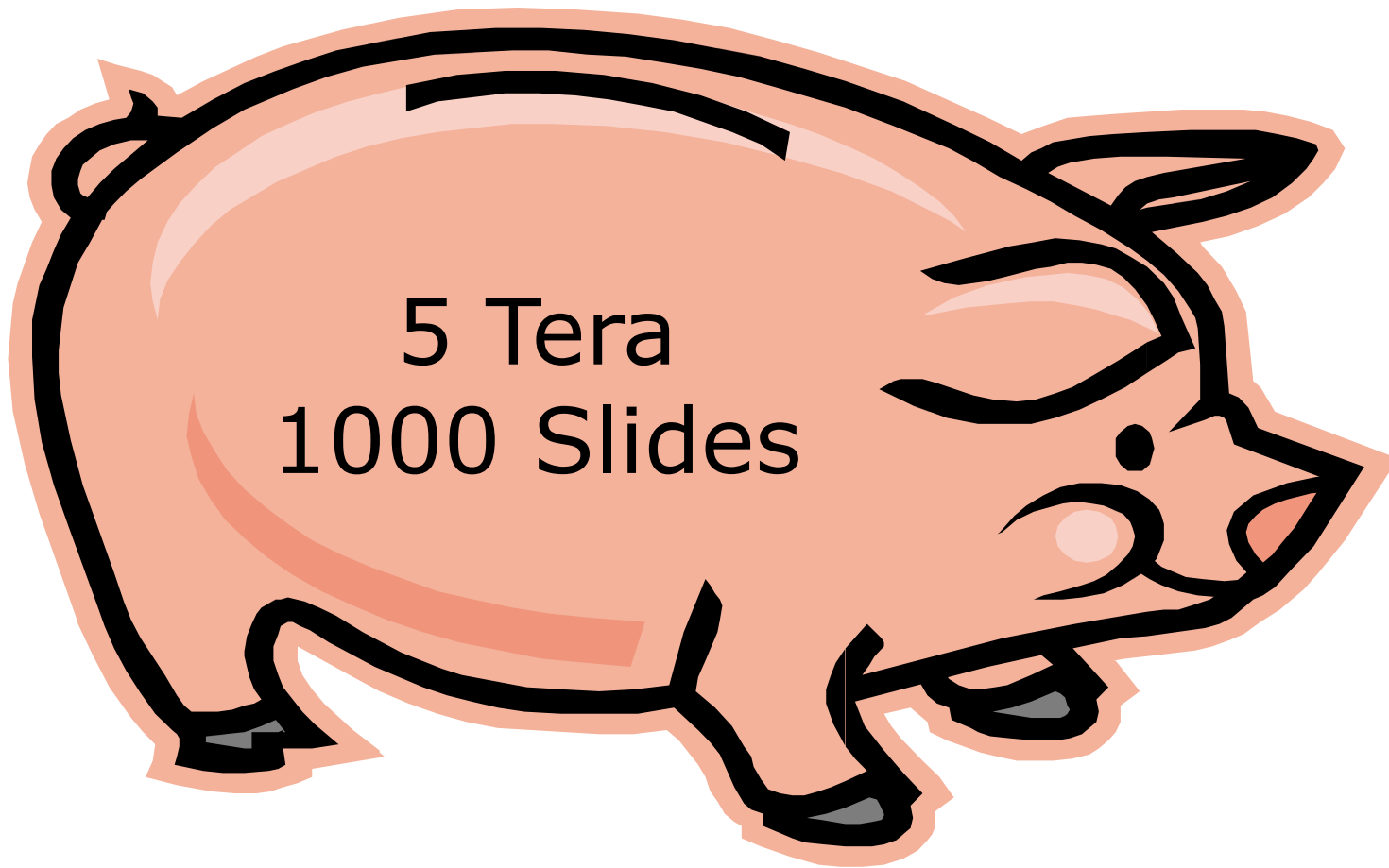
Olympus .Slide



Storage



Prize



Funding

- System Development
 - Swiss Virtual Campus project „Pathopedia“
 - Matching Funds university of Basel
 - Grant Novartis (Slide Scanner)
 - Efficient content management system
- Running Costs
 - Raised member fee Swiss Society of Pathology
 - Non members pay for slide seminar to get credits

Searchable Database

<http://pathorama.ch/vSlides/>

The screenshot shows a Mozilla Firefox browser window displaying the Pathorama vSlides website. The address bar shows the URL <http://nikt.unibas.ch/vslides/>. The website header includes the 'vSlides' logo and navigation links: 'About', 'Is it for me?', 'Subscribe', 'Tell a friend', and 'Contact'. A search bar labeled 'SEARCH FORM' indicates that 5 vSlides were found out of a total of 44. Below this is a table with columns for ID, Diagnosis/Topography, Age, Gender, Stain, Type, and Preview. The table lists five entries, each with a small thumbnail image in the preview column. At the bottom of the page, there is a pagination control showing '20' items per page and page numbers '1 2 3'. The footer text reads 'Uni Basel, Institut für Pathologie, 2007'.

ID	Diagnosis/Topography	Age	Gender	Stain	Type	Preview
125	Compound nevus in a special site (nfraumbilical) of an infant: Skin, Trunk	1	♀	Haematoxylin & Eosin (H&E)	↓	
124	Highly atypical dermoepidermal melanocytic lesion with scar like fibro... Skin, Trunk	56	♂	Haematoxylin & Eosin (H&E)	↓	
123	Dermal nevus associated with desmoplastic trichoepithelioma Skin, Head	33	♀	Haematoxylin & Eosin (H&E)	↓	
122	Superficial spreading melanoma. Residual dysplastic nevus. Clark level... Skin, Upper Extremity	58	♂	Haematoxylin & Eosin (H&E)	↓	
119	Nevus with focal epitheloid cell component (clonal nevus) Skin, Lower Extremity	25	♀	Haematoxylin & Eosin (H&E)	↓	

20 1 2 3

Uni Basel, Institut für Pathologie, 2007

Slide Collections e.g. Seminars

The screenshot shows the vCollections website interface. At the top, there is a navigation bar with links for 'About', 'Subscribe', 'Tell a friend', and 'Contact'. Below this is a search form with the following fields:

- Collection Type: All
- User Group: All
- Organizer: All
- TopoGroup: All
- search text: [empty]

Buttons for 'START Search' and 'RESET to 'All'' are located below the search form. A yellow box highlights the URL <http://pathorama.ch/vCollections/>.

Below the search form, there is a table of vCollections. The table has the following columns: ID, Title, TopoGroup, Organizer, User Group, Status, and Slides.

ID	Title	TopoGroup	Organizer	User Group	Status	Slides
22	Dermatohistopathology Working Group (June 7, 2008)	Skin	Swiss Society of Pathology	Surgical Pathologists	course	15
21	Renal Tumours in Children and Adults (2008-04-26)	Kidney, Lower Urinary Tract	Swiss Society of Pathology	Surgical Pathologists	public	11
20	Pitfalls of Surgical Pathology (May 26, 2008)		Institute for Pathology University of Basel	Surgical Pathologists	course	50
19	Challenging biopsy diagnoses in breast pathology (January 19, 2008)	Genital System, Breast	International Academy of Pathology Swiss Division	Surgical Pathologists	public	12
18	Dermatohistopathology Working Group (December 1st, 2007)	Skin	Swiss Society of Pathology	Surgical Pathologists	public	14
15	Cardiovascular, pulmonal and cerebral pathology (November 11, 2007)		Swiss Society of Pathology	Surgical Pathologists	public	13
11	Non Neoplastic Lesions of Bones and Joints (February 10, 2007)	Bone, Cartilage	International Academy of Pathology Swiss Division	Surgical Pathologists	public	11

Content Management

Document1 - Microsoft Word

File Edit View Insert Format Tools Table Window Help

Type a question for help

100%

Draw AutoShapes

Slide Information - Form

All fields must be filled out in English according to the instructions that precede each form field. For each field you can get a short info by pressing F1.

Save the (completely filled out) form by giving it a new name (containing the sample number) and send it via e-mail to the organizer of the seminar.

All fields designated with a **S** are **mandatory**!

We will not process incomplete or ambiguous forms!

Formfields

Case Number
This field will be filled in by the organizer. All other fields are completed by the instructor of this slide.
[]

Sample Number
The Sample Number serves to identify the glass slide. It's the number that is written on the slide. This value is for internal use only and will not be published in the web (eg 82007.1234).
S []

Diagnosis
Diagnoses that can be made by viewing this slide.
S []

Synonyms
Alternative designations for the diagnosis.
[]

CourseInfo
Clinical findings which are given to the participants prior to the deadline for submission of diagnoses. Specify the anatomic location of the course slide. Make sure not to reveal the diagnosis.
S []

SNOMED
[]

ICD-0
[]

vSlide-edit - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://

save vSlide and exit save vSlide and continue reset

workflow state working pending published

Visibility hidden course public

Slide ID [810]

import data from Slide [] import

URL [http://ds-pub.unibas.ch/WebImage/WebView.aspx?id=7f5ad81-ba2b-4263-8721-c0874862c0e]

Preview-URL [http://ds-pub.unibas.ch/WebImage/GetThumbnail.aspx?id=7f5ad81-ba2b-4263-8721-c0874862c]

SlideType [Histology]

Sample No. [HiPaKu 94 EQ2 17491 II]

Diagnosis [Benign gastrointestinal stromal tumor of the stomach (GIST), spindle cell type]

Synonyms [low risk gastrointestinal stromal tumor gastrointestinal stroma tumor gastrointestinal stromal tumour gist spindle cell type]

Courseinfo []

ICD10-Code []

ICD8 [89360]

SNOMED []

DiagnosticGrp [Benign Tumor]

TopoGroup [Esophagus, Stomac]

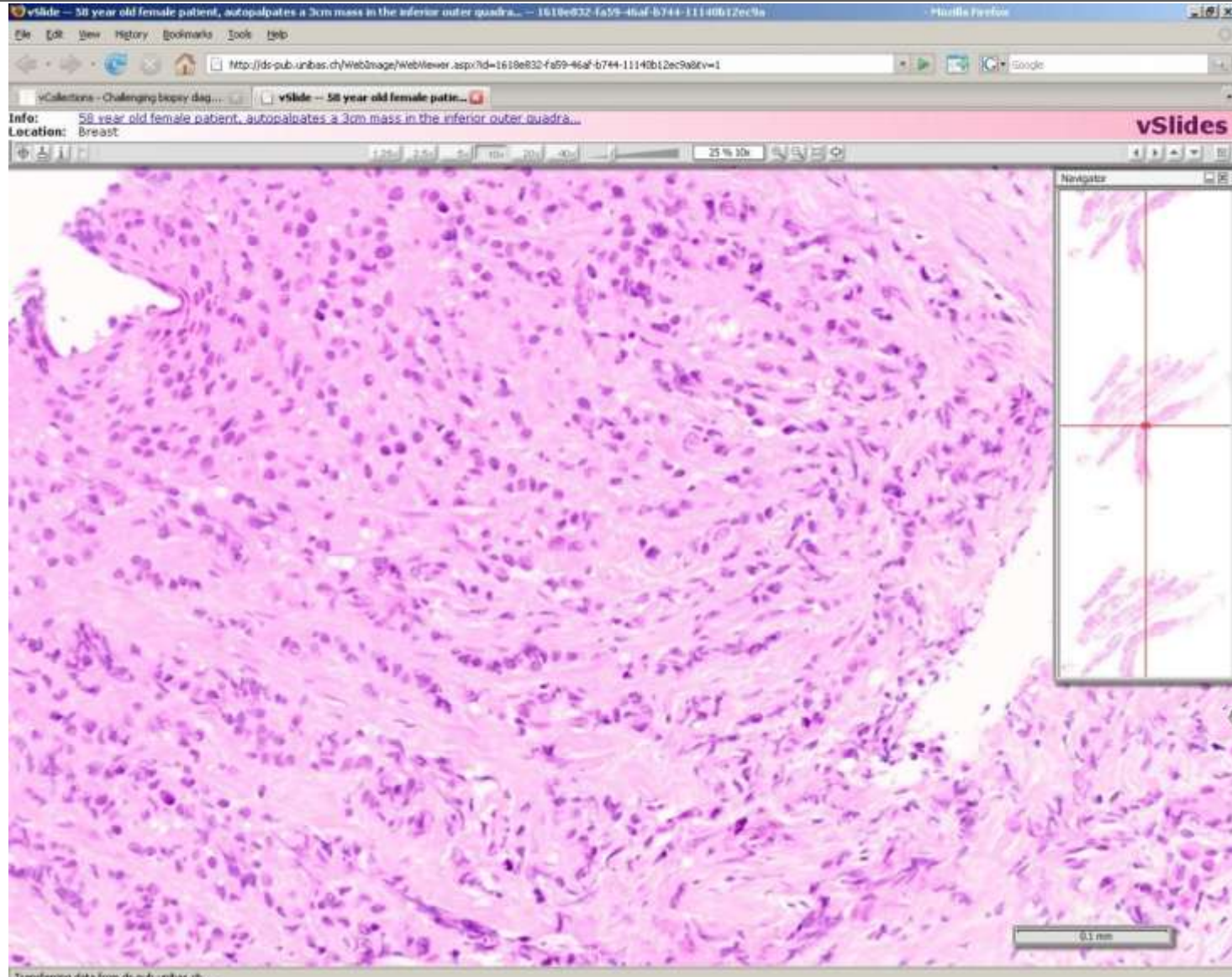
Topography [Stomach]

Stain [Haematoxylin & Eosin (H&E)]

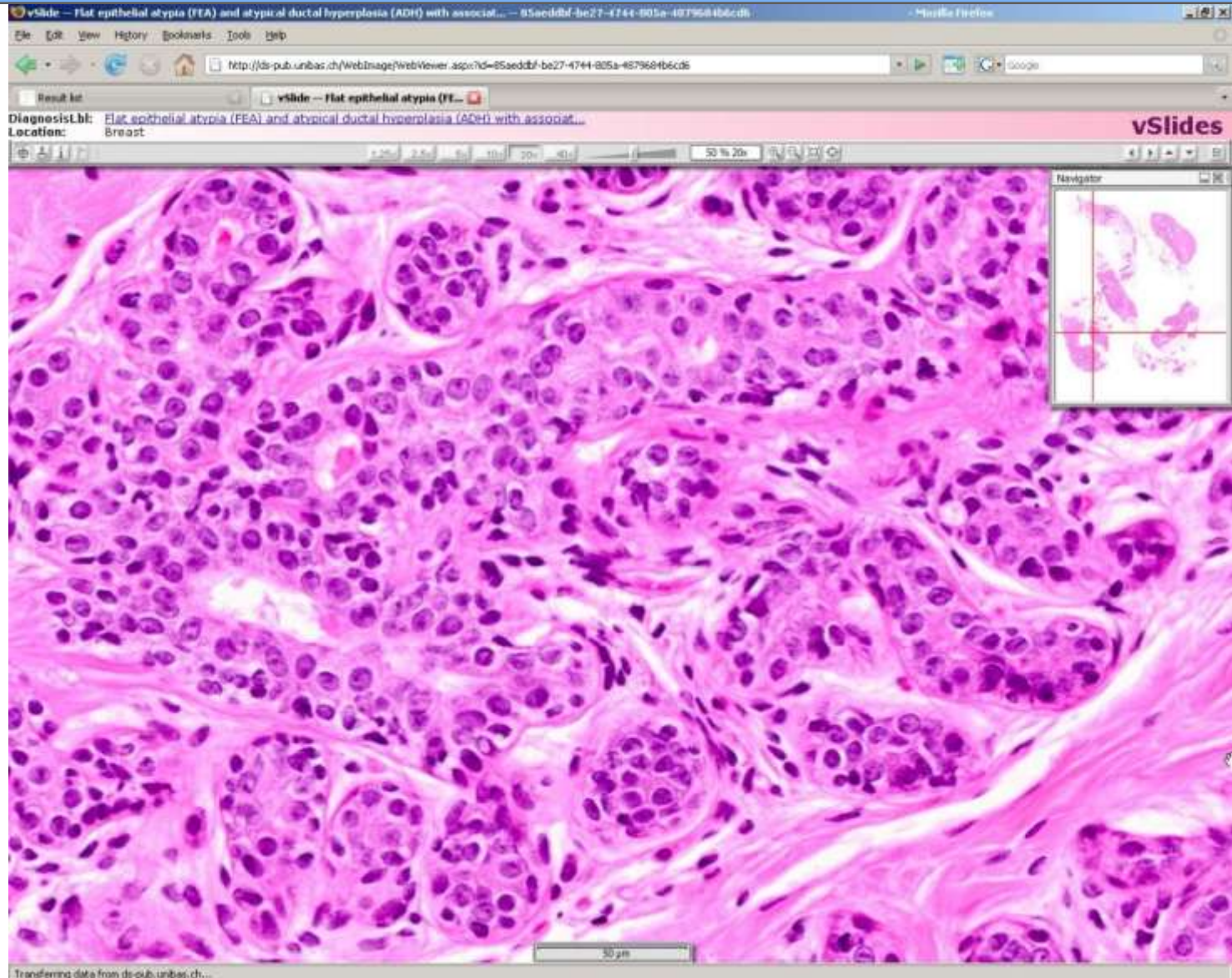
ImmunoStain [-- NO ASSIGNMENT --]

Description [Well circumscribed within the muscularis propria of the gastric corpus. The tumor measures 1cm. It is moderately cellular and consists of fascicles of cytologically bland spindle cells with focal nuclear palisading resembling a nerve sheath tumor. Some cells show prominent cytoplasmic vacuolization. There is a small area of sclerosis with dystrophic calcification in the upper tumor section. Mitotic figures are very rare. There is no tumor necrosis. The gastric corpus mucosa shows mild chronic and minimally active gastritis.]

Poor Slide Quality?



Another Slide from the same Course



← back

Dermatohistopathology Working Group

June 7, 2008 Zürich, Switzerland

DR THOMAS BREITBACH, INSTITUTE FOR PATHOLOGY, MÜNSTERLINGEN, SWITZERLAND
DR DANIELA MIHIC, INSTITUTE FOR CLINICAL PATHOLOGY, UNIVERSITY OF ZÜRICH, SWITZERLAND
PD DR KATHARINA GLATZ, INSTITUTE FOR PATHOLOGY, UNIVERSITY OF BASEL, SWITZERLAND
DR PETER HAEUSERMANN, DEPARTMENT OF DERMATOLOGY, UNIVERSITY OF BASEL, SWITZERLAND
DR BRUNO PAREDES, DERMATOPATHOLOGISCHE GEMEINSCHAFTSPRAXIS, FRIEDRICHSHAFEN, GE

Abstract: Difficult melanocytic tumors and some non-melanocytic lesions.

Participants of the seminar in Zürich should complete the [online form](#) to receive credits.















Deadline for submission of diagnoses: Sunday, June 1st, 2008.

The case diagnoses and the handout will be accessible from Sunday, June 1st, 2008 on this page.

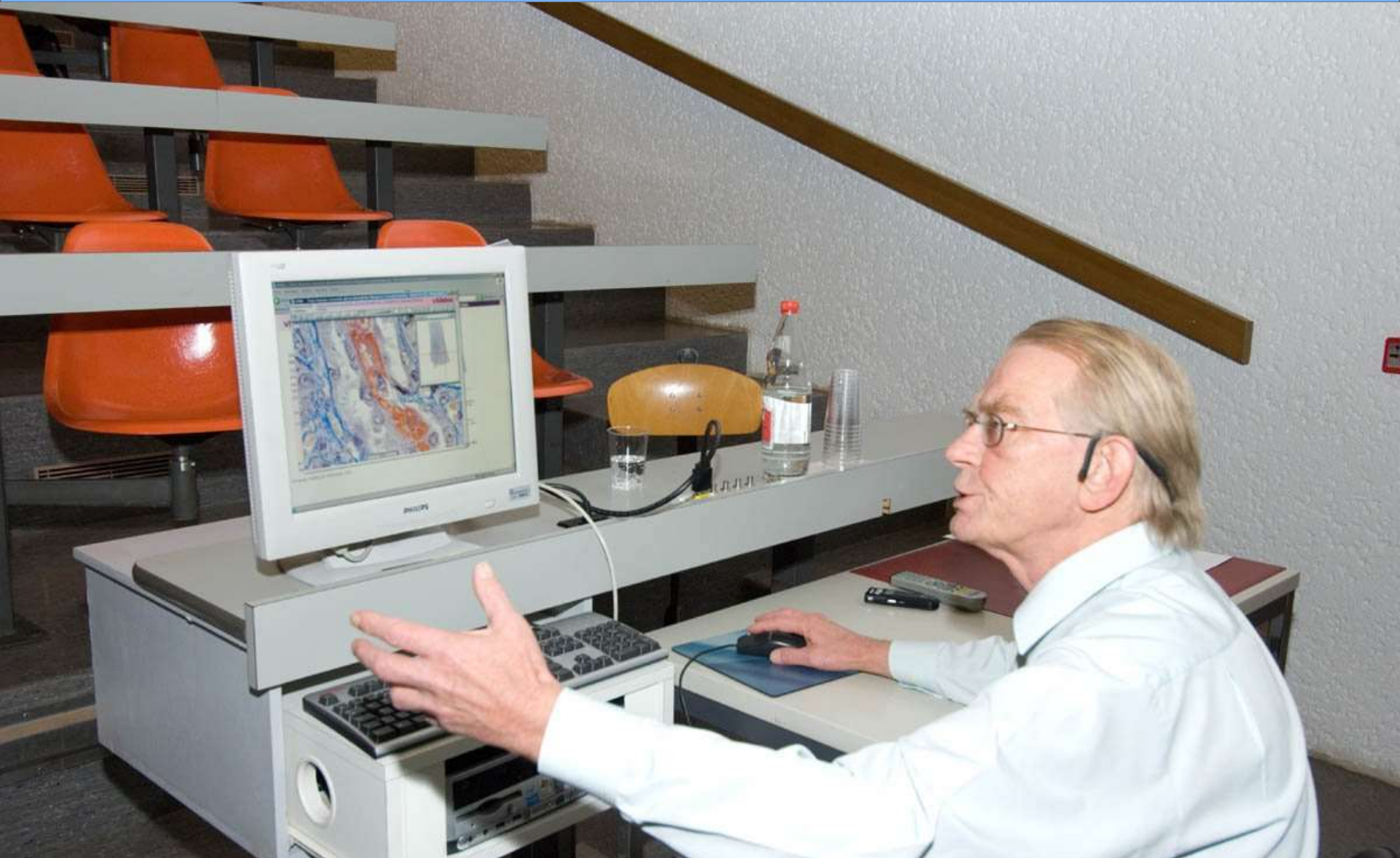
Non-Participants may [subscribe](#) to receive an email as soon as the diagnoses are published.

- Active participants:
1. Seminar: 26 Autopsy pathology
 2. Seminar: 96 Needle biopsy breast
 3. Seminar: 72 Kidney tumors

vslide 1 - 15 of 15

	Vulvar lesion. Fibroma? Lymph node?	
	Prior diagnosis of an incompletely excised basal cell carcinoma on the nose. Reexcision.	
	Slowly growing brownish verrucous papule on the lumbal skin	
	Parieto-frontal basal cell carcinoma	
	Acral melanoma. Amputation of the little toe.	
	Blue-black macule on the back. Melanoma?	
	Fast growing tumor on the left upper arm 2x2cm, blue-black, after the diagnosis (skin biopsy) of a blue nevus 4 years earlier.	

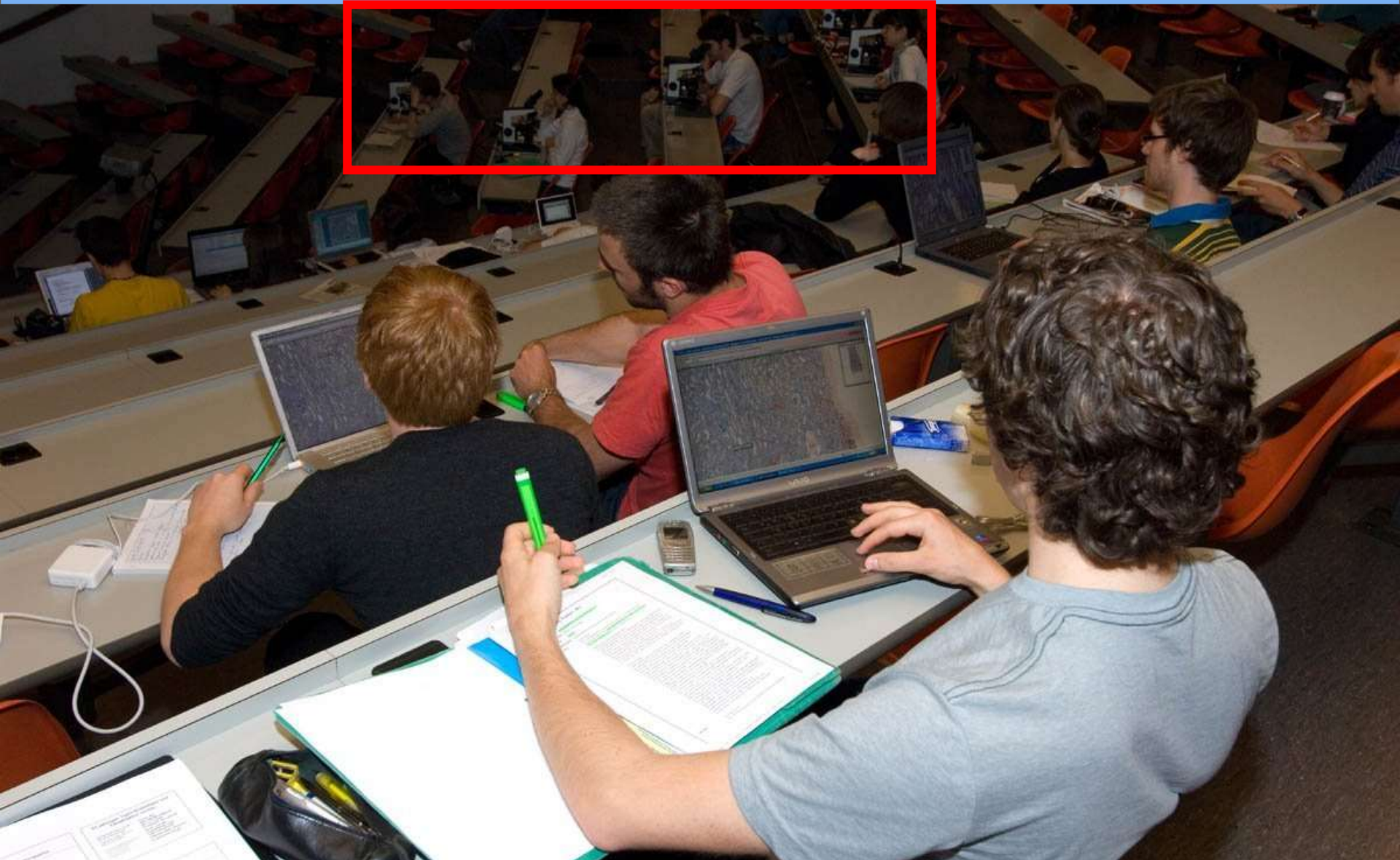
Virtual Slides in Education



Virtual Slides in Education



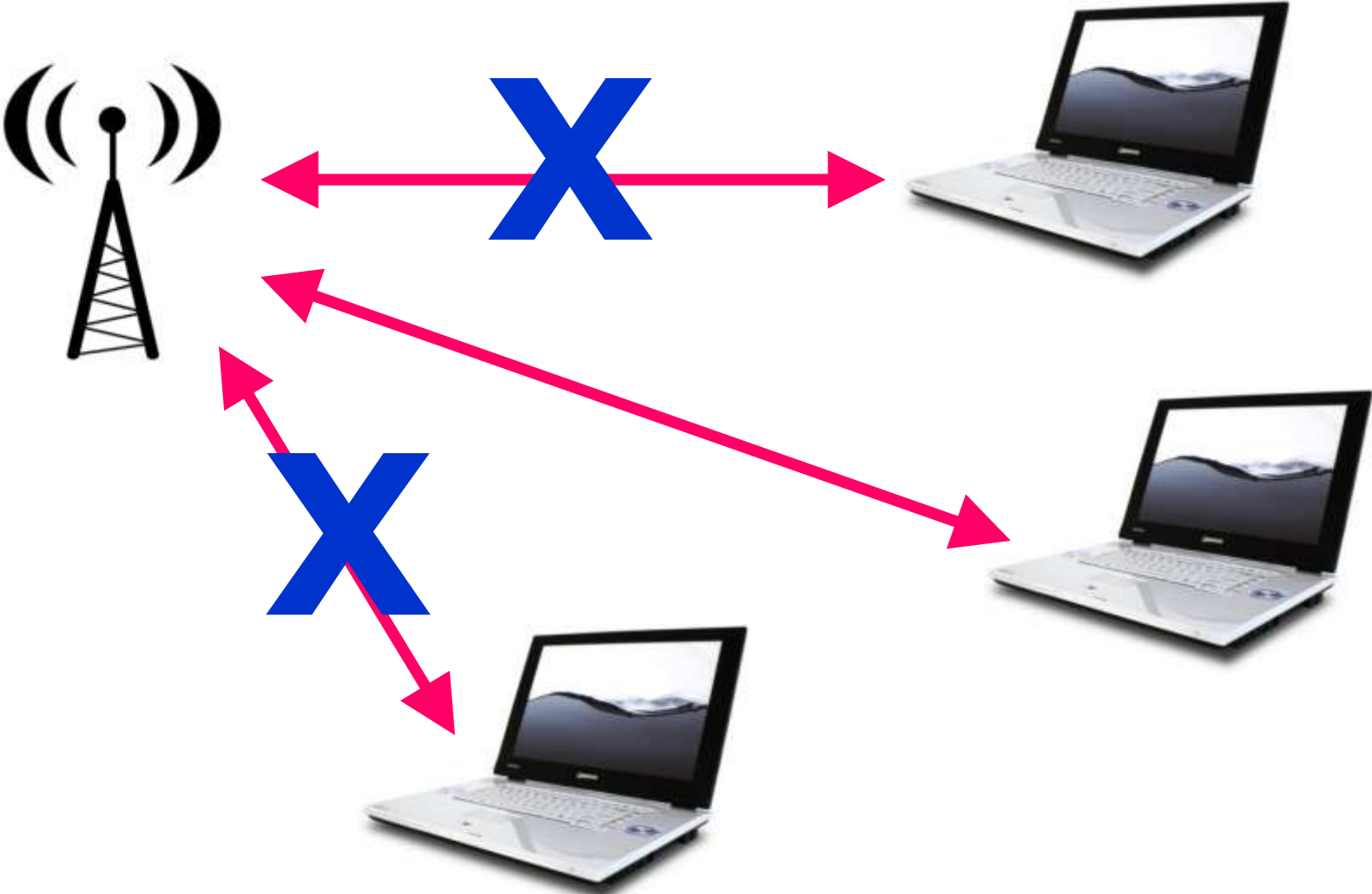
Virtual Slides in Education



Wireless LAN



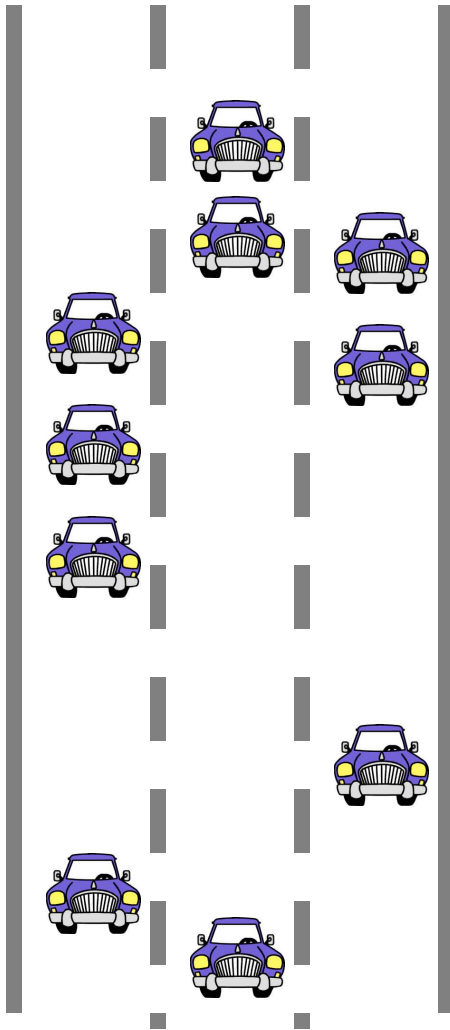
Wireless LAN



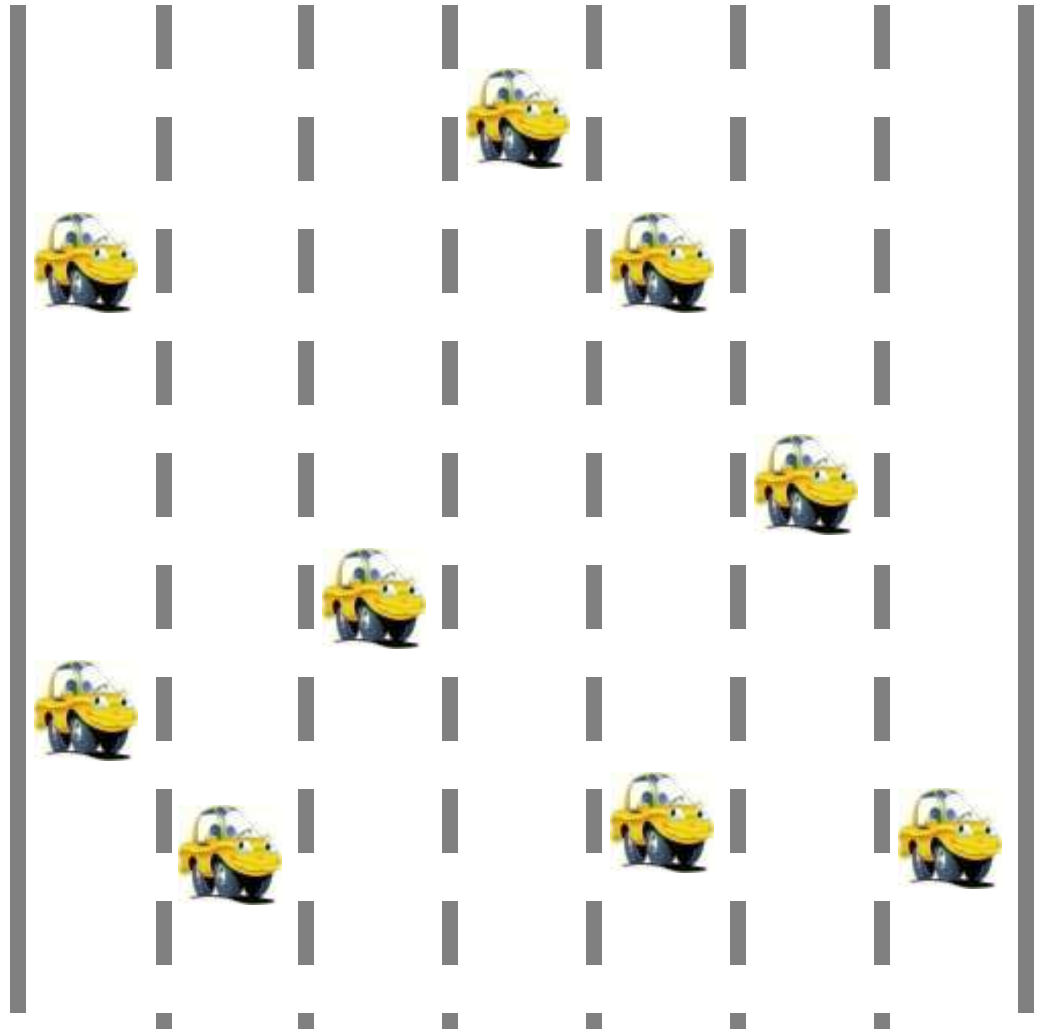
Information Highway (Single-Lane)



10-Lanes



802.11g



802.11a 54 MBit/s

Conclusions

- Users prefer open educational resources
- Students adopted new technology quickly but pathologists are catching up
- Steep increase of online educational materials
- Fast switch from conventional to virtual microscopy in education