

Anatomic Pathology I

Proff. **Giuseppe Ingravallo, Eugenio
Maiorano, Andrea Marzullo**

Integrated/interactive course

- ⇒ General (morphologic) pathology
- ⇒ Systematic Pathology
 - Cardiovascular & respiratory
- Frontal lessons
- Practical activities

Anatomic Pathology I

The essentials

- Histology (Embryology and **Organogenesis**) & Normal Anatomy
- Physiology
- General Pathology

Feeling bad already?!?

Anatomic Pathology I

Flow-chart

■ Frontal lessons

⇒ Essential talks(!!!)

⇒ **Interactivity**

⇒ Not too much writing

- www.medicina.uniba.it
- www.uniba.it/docenti/maiorano-eugenio
 - **Didattica online (schemes)**
 - **Corso di laurea (programs)**
 - **Esse3 (booking)**

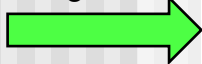


Benvenuti

GIURO DI ESERCITARE LA MEDICINA IN LIBERTÀ E INDIPENDENZA DI GIUDIZIO E DI COMPORTAMENTO; DI PERSEGUIRE COME SCOPI ESCLUSIVI LA DIFESA DELLA VITA, LA TUTELA DELLA SALUTE FISICA E PSICHICA DELL'UOMO E IL SOLLIEVO DELLA SOFFERENZA, CUI ISPIRERÀ CON RESPONSABILITÀ E COSTANTE IMPEGNO SCIENTIFICO, CULTURALE E PROFESSIONALE....



Programs



- Home
- La Facoltà
- Didattica**
- Docenti
- Strutture
- Studenti
- Area Sanità

- Modulistica
- Link utili

Area privata:

Utente

Password

[Registrati!](#)

[Recupera Password!](#)

Modalità di accesso

- [STUDENTI](#)
- [DOCENTI](#)

Info



::: Bacheca

28/02/2012:

Convocazione Consiglio di Facoltà del 05/03/2012

23/02/2012:

NEWS

15/02/2012:

AVVISO - Studenti del CdL in Medicina e Chirurgia NOD e Tab XVIIIbis

01/02/2012:

Avviso Studenti Laureandi della Laurea Magistrale

ERASMUS

(avviso pubblicato ore 15:30)
Date colloquio di Lingua

Bandi di Vacanza

BANDI CO.CO.CO.

Impegno aule cliniche mediche

PROCEDURA TELEMATICA PER CALENDARI D'ESAME

didattica in linea

Centro di Consulenza Psicologica per gli Studenti

Eventi Aula Magna



...continua →



Didattica

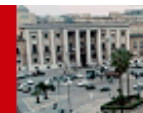
Cliccare con il mouse sul nome del CdL o sull'immagine *i* per accedere al menù

CORSI DI LAUREA MAGISTRALE

BARI ENGLISH MEDICAL CURRICULUM	
DEGREE COURSE COORDINATOR Prof. Antonio Moschetta Tel. 0805478340 Fax. antonio.moschetta@uniba.it	TEACHING COORDINATOR Prof. Piero Portincasa Tel. 0805478227 Fax. piero.portincasa@uniba.it
TEACHING SECRETARIAT Dott.ssa Valentina Del Conte Tel. 0805478662 - Fax. valentina.delconte@uniba.it	



- Home
- La Scuola
- Docenti
- Strutture
- Studenti
- Area Sanità
- Didattica
- Modulistica
- Link Utili



BARI ENGLISH MEDICAL CURRICULUM

COURSE PROGRAMS

Select:

:: [01. Biology And Genetics Program 2016-2016](#)

:: [01. Syllabus Physics Course 2015-2016](#)

:: [01. Chemistry And Introductory Biochemistry](#)

:: [01. General Psychology 2015-2016](#)

:: [01. Human Cytology Histology And Embriology 2015-2016](#)

:: [01. Human Sciences 2015-2016](#)

:: [04. Medical-Surgical Specialities 2](#)

:: [01. Biology And Genetics Program 2014-15](#)

:: [02. SCIENTIFIC ENGLISH A.A. 2013-2014](#)

:: [01. Biology And Genetics A.A 2013-2014](#)

:: [01. Anatomy Part1 2012-2013](#)

:: [01. Biochemistry Part1 2012-2013](#)

:: [01. Biology Genetics 2012-2013](#)

:: [01. Chemistry 2012-2013](#)

:: [01. Histology And Embriology 2012-2013](#)

:: [01. Human Sciences 2012-2013](#)

:: [01. Medical Semiology 2012-2013](#)

:: [01. Physics Informatics 2012-2013](#)

:: [01. Biology And Genetics 2015-2016](#)

:: [01. Chemistry And Introductory Biochemistry](#)

:: [02. English](#)

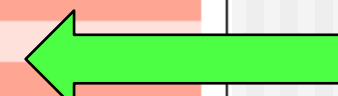
:: [02. Microbiology and Parasitology](#)

:: [02. Molecular Biology](#)

:: [02. Virology](#)

:: [03. Anatomic Pathology 1 2014-2015](#)

:: [04. ANATOMIC PATHOLOGY 2](#)



Home

La Scuola

Docenti

Strutture

Studenti

Area Sanità

Didattica

Modulistica

Link Utili

Area privata:
Utente
Password
[Registrati!](#)
[Recupera Password!](#)

Modalità di accesso
- [STUDENTI](#)
- [DOCENTI](#)

Appelli di: ANATOMIC PATHOLOGY PART I [062273]

[visualizza dettagli >>](#)

MEDICINA E CHIRURGIA - BARI ENGLISH MEDICAL CURRICULUM (D.M.270/04)
[8466] (LM)...

Elenco Appelli d'esame.

Attenzione: nell'[area manualistica riservata ai docenti](#) è possibile consultare [le nuove modalità operative della verbalizzazione digitale](#).

[Nuovo appello d'esame](#)

[Nuova prova parziale](#)

visualizza

recenti

Descrizione Appello	Data ora aula	Studenti iscritti		Esiti inseriti		Verbali caricati	Azioni		
BEMC Anatomic Pathology Part 1	15/09/2016 09:00		4		3				
BEMC Anatomic Pathology Part 1	17/01/2017 09:00 Studio del Docente		2						
BEMC Anatomic Pathology Part 1	17/01/2017 09:00 Studio del Docente		6		6				
BEMC Anatomic Pathology Part 1	12/04/2017 09:00 Studio del Docente								
BEMC Anatomic Pathology Part 1	12/07/2017 09:00 Studio del Docente								
BEMC Anatomic Pathology Part 1	13/09/2017 09:00 Studio del Docente								

Appelli di: **ANATOMIC PATHOLOGY [062277]**

[visualizza dettagli >>](#)

MEDICINA E CHIRURGIA - BARI ENGLISH MEDICAL CURRICULUM (D.M.270/04)
[8466] (LM)...

Elenco Appelli d'esame.

Attenzione: nell'[area manualistica riservata ai docenti](#) è possibile consultare [le nuove modalità operative della verbalizzazione digitale](#).

[Nuovo appello d'esame](#)

[Nuova prova parziale](#)

visualizza

recenti

Descrizione Appello	Data ora aula	Studenti iscritti	Esiti inseriti	Verbali caricati	Azioni
ANATOMIC PATHOLOGY	19/09/2016 09:00				
ANATOMIC PATHOLOGY	04/10/2016 09:00	1			
ANATOMIC PATHOLOGY	08/11/2016 16:00	2	2	2	
ANATOMIC PATHOLOGY	13/12/2016 09:00	1	1	1	
ANATOMIC PATHOLOGY [062277]	19/01/2017 09:00 Aula Barbera	2	2		
ANATOMIC PATHOLOGY [062277]	21/02/2017 09:00 Aula Barbera				
ANATOMIC PATHOLOGY [062277]	15/03/2017 09:00 Aula Barbera				
ANATOMIC PATHOLOGY [062277]	21/04/2017 16:00 Aula Barbera				
ANATOMIC PATHOLOGY [062277]	22/05/2017 09:00 Aula Barbera				
ANATOMIC PATHOLOGY [062277]	22/06/2017 09:00 Aula Barbera				
ANATOMIC PATHOLOGY [062277]	25/07/2017 09:00 Aula Barbera				
ANATOMIC PATHOLOGY [062277]	19/09/2017 09:00 Aula Barbera				
ANATOMIC PATHOLOGY [062277]	24/10/2017 16:00 Aula Barbera				
ANATOMIC PATHOLOGY [062277]	16/11/2017 09:00 Aula Barbera				
ANATOMIC PATHOLOGY [062277]	18/12/2017 09:00 Aula Barbera				



Tu sei qui: [Home](#) > [Docenti](#) > [Maiorano Eugenio](#)

Ricerca docente per co

Cerca

Eugenio Maiorano



Telefono: +390805478292 interno **6292**

Fax: +390805593525

Dipartimento: [Dipartimento dell'emergenza e dei trapianti di organi](#)

Email: eugenio.maiorano@uniba.it

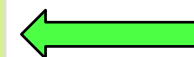
Settore disciplinare: MED/08 - Anatomia Patologica

[Curriculum](#)

[Ricerca](#)

[Pubblicazioni](#)

[Didattica](#)



Docenti

■ [Docenti e ricercatori](#)

**Servizi
ONLINE**



**SITO AREA
Personale Docente**



Publicato il: 04/04/2013 Ultima modifica: 24/05/2016

Attività Didattica

Attività Didattica

Orario di ricevimento

Lunedì ore 10,00 - 12,00

Avvisi

Nessun avviso

Materiali didattici

Corsi attribuiti

Corso di Laurea in Medicina e Chirurgia: Anatomia Patologica - parte 1* (3° anno, 2° semestre), semestre)

Corso di Laurea in Medicina e Chirurgia in lingua inglese: Anatomic Pathology - part 1 (3rd year, 4th year, 1st semester)

Programma didattico

<http://www.medicina.uniba.it/news/index.jsp?idstr=2&idnwk=13&idFiltro=NODbis>

<http://www.medicina.uniba.it/news/index.jsp?idstr=162&idnwk=40&idFiltro=>

Publicato il: 31/01/2012 Ultima modifica: 24/05/2016

Anatomia Patologica Parte 1^a

- 1a. Introduzione 2016.pdf
- 1c. Infiammazione
- 1d. Disturbi di circolo
- 1e. Adattamento cellulare
- 1e. Morte cellulare
- 1f. Patologia cellulare
- 1g. Pigmentazioni patologiche
- 1h. Lue
- 1h. Tubercolosi
- 1h. Sarcoidosi
- 2a. Neoplasie generalità
- 2b. Neoplasie grado e stadio
- 2c. Neoplasie disontogenetiche
- 3a. Polmone patologia non-neoplastica
- 3b. Polmone neoplasie
- 3c. Polmone atelettasia
- 3d. Polmone enfisema
- 3e. Polmone tubercolosi
- 3f. Pneumoconiosi
- 3g. Pleuriti

Ultima modifica: 24/05/2016

Anatomia Patologica Parte 2^a

- Digerente
- Endocrino
- Ginecopatologia
- Uropatologia
- Mammella
- Tessuti molli e duri
- Linfoietico
- Sistema Nervoso Centrale
- Cute

Ultima modifica: 24/05/2016

Anatomic Pathology Part 1

[Leggi il resto](#)

Anatomic Pathology Part 2



Anatomic Pathology Part 1

1a. Introduction

[1a. Intro AP1 BEMC 2016.pdf](#) — PDF document, 8648 kB (8855609 bytes)

Ultima modifica: 24/05/2016

1b. Processing

[1b. Processing.pdf](#) — PDF document, 7791 kB (7978503 bytes)

Ultima modifica: 24/05/2016

1c. Inflammation

[1c. Inflammation EM.pdf](#) — PDF document, 67503 kB (69123743 bytes)

Ultima modifica: 24/05/2016

1e. Cell death

[1e. Cell Death EM.pdf](#) — PDF document, 22304 kB (22839414 bytes)

Ultima modifica: 24/05/2016

1e. Cellular adaptation

[1e. Cellular Adaptation EM.pdf](#) — PDF document, 24263 kB (24845531 bytes)

Ultima modifica: 24/05/2016

1f. Syphilis

[1f. Syphilis EM1.pdf](#) — PDF document, 10418 kB (10668240 bytes)

Ultima modifica: 24/05/2016

1h. Sarcoidosis

[1h. Sarcoidosis EM.pdf](#) — PDF document, 25494 kB (26106459 bytes)

Ultima modifica: 24/05/2016

1h. Tuberculosis

[1h. Tuberculosis EM.pdf](#) — PDF document, 3854 kB (3946726 bytes)

Ultima modifica: 24/05/2016

1i. Neoplasms: general features

[1i. Neoplasms general EM.pdf](#) — PDF document, 27123 kB (27774851 bytes)

Ultima modifica: 24/05/2016

1i. Neoplasms: disontogenetic

[1i. Neoplasms Disontogenetic EM.pdf](#) — PDF document, 44690 kB (4576 bytes)

Ultima modifica: 24/05/2016

2a. Lung inflammations

[2a. Lung Inflammatory EM.pdf](#) — PDF document, 5817 kB (5957497 bytes)

Ultima modifica: 24/05/2016

2b. Lung neoplasms

[2b. Lung Neoplasms EM.pdf](#) — PDF document, 3869 kB (3962678 bytes)

Ultima modifica: 24/05/2016

2d. Lung TB

[2d. Tuberculosis EM.pdf](#) — PDF document, 11443 kB (11717944 bytes)

Ultima modifica: 24/05/2016

2e. Pneumoconiosis

[2e. Pneumoconiosis.pdf](#) — PDF document, 5717 kB (5854646 bytes)

Ultima modifica: 24/05/2016

2f. Pleural pathology

[2f. Pleural Pathology EM.pdf](#) — PDF document, 849 kB (870008 bytes)

Anatomic Pathology Part 2

4a. Hypophysis

[4a. Hypophysis.pdf](#) — PDF document, 2603 kB (2665768 bytes)

Ultima modifica: 09/12/2016

4b. Thyroid

[4b. Thyroid.pdf](#) — PDF document, 7061 kB (7230630 bytes)

Ultima modifica: 24/05/2016

4c. Adrenal Gland

[4c. Adrenal.pdf](#) — PDF document, 4658 kB (4770007 bytes)

Ultima modifica: 09/12/2016

7a. Breast pathology

[07a. Breast Pathology 5.pdf](#) — PDF document, 41304 kB (42295942 bytes)

Ultima modifica: 24/05/2016

09a. Soft Tissue Tumours

[9a. Soft Tissue Tumours new.pdf](#) — PDF document, 205308 kB (210235642 bytes)

Ultima modifica: 09/12/2016

10b. Lymphadenitis

[10b. Lymphadenitis.pdf](#) — PDF document, 798 kB (818109 bytes)

Ultima modifica: 24/05/2016

10c. Hodgkin lymphoma

[10c. Hodgkin Lymphoma EM.pdf](#) — PDF document, 21618 kB (22137718 bytes)

Ultima modifica: 24/05/2016

10d. Non-Hodgkin lymphomas

[10d. NH Lymphomas EM.pdf](#) — PDF document, 4607 kB (4718022 bytes)

Ultima modifica: 24/05/2016

11d. Meningiomas

[11d. SNC Meningiomas.pdf](#) — PDF document, 5195 kB (5319774 bytes)

Ultima modifica: 24/05/2016

11e. CNS neoplasms

[11e. SNC Tumours 1 new.pdf](#) — PDF document, 12500 kB (12800349 bytes)

Anatomic Pathology I

Flow-chart

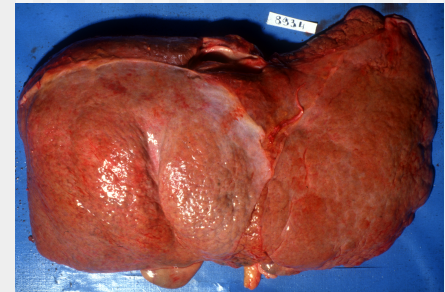
- Practical activities
 - ⇒ Check-in and formalities
 - ⇒ Technical tracks
 - ⇒ Frozen sections
 - ⇒ Gross/micro examination
 - ⇒ Students = leading actors

What kind of physician would you like to be

- I just take care of
- Blood tests first ...
- Sit down and let's talk ...

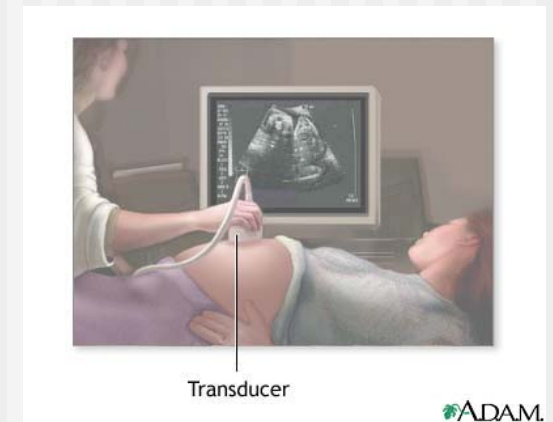
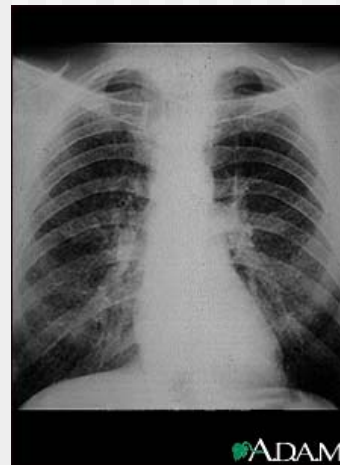
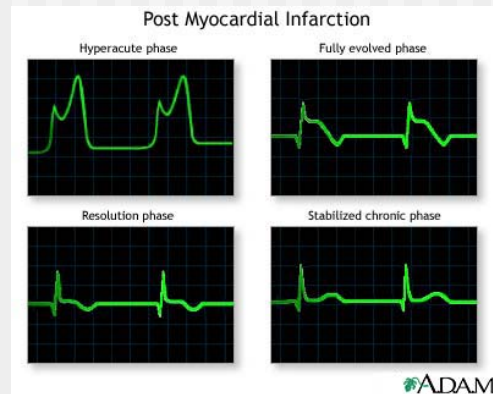
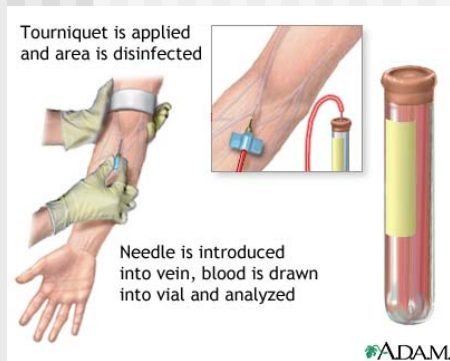
What kind of physician do you look like

- I just take care of
- Blood tests first ...
- Sit down and let's talk ...



What kind of physician do you look like

- I just take care of
- Blood tests first ...
- Sit down and let's talk ...



What kind of physician do you look like

- I just take care of
- Blood test first ...
- Sit down and let's talk ...

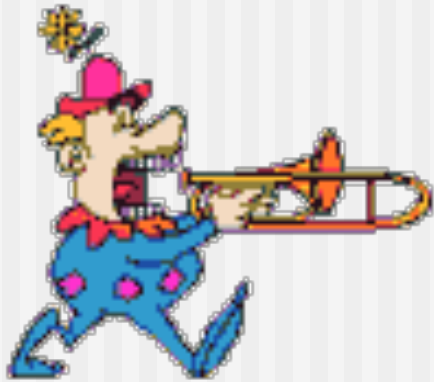
Who?
What?



The New York Times
ON THE WEB

Why?

Anatomic Pathology



Pseudo-internist



Pseudo-orthopedic



Pseudo-surgeon



Pseudo-psychiatrist



Pseudo-boss



The Physician

Anatomic Pathology

What for?

- Why does an ecchymosis change from red to purple, to brown, to green, to yellow and finally disappears?
- Why liver cirrhosis does not heal (and forget about Prometheus)?
- When and why the 1st Pap-test?

Anatomic Pathology

What for

- To understand the pathways of diseases
 - ⇒ From pathogens to complications
 - ⇒ **Correlate events with signs/symptoms**
 - ⇒ Evaluate symptoms *epicritically*
- To justify clinical presentations
 - ⇒ Objective pathological examination
 - ⇒ Deductive evaluation of signs and symptoms

Anatomic Pathology

- **Grammar = language comprehension**
- **Psychology = mind comprehension**
- **Pathology = medicine comprehension**

Frank McCourt: “Ehi Prof.!”

Anatomic Pathology

- **I listen – I forget**
- **I watch – I remember**
- **I do – I understand**

Chinese motto

Anatomic Pathology

- **Masters stimulate and guide**
- **Masters explain and clarify**
- **Masters cannot really “*sign-inside*”**
- **Scholars learn through an active and energy-consuming process**

S. Agostino: “De Magistro”

Anatomic Pathology

NO
PAIN
NO
GAIN

Mona Lifta



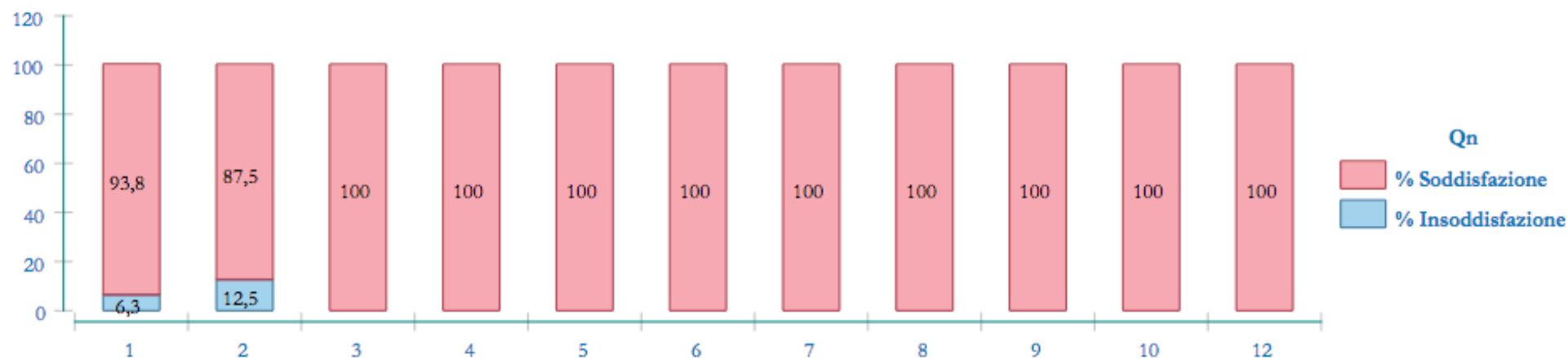
Frontal lessons

A.D.: ANATOMIC PATHOLOGY

U.D.: ANATOMIC PATHOLOGY

							LEZ	A - Z	
Qn	Quesito	Num	No	No_Si	Si_No	Si	% Ins	% Sod	
1	Le conoscenze preliminari possedute sono risultate sufficienti per la comprensione degli argomenti previsti nel programma d'esame?	16	0	1	4	11	6,3	93,8	
2	Il carico di studio dell'insegnamento è proporzionato ai crediti assegnati?	16	0	2	7	7	12,5	87,5	
3	Il materiale didattico (indicato e disponibile) è adeguato per lo studio della materia?	16	0	0	5	11	0	100	
4	Le modalità di esame sono state definite in modo chiaro?	16	0	0	3	13	0	100	
5	Gli orari di svolgimento di lezioni, esercitazioni e altre eventuali attività didattiche sono rispettati?	16	0	0	1	15	0	100	
6	Il docente stimola/motiva l'interesse verso la disciplina?	16	0	0	2	14	0	100	
7	Il docente espone gli argomenti in modo chiaro?	16	0	0	2	14	0	100	
8	Le attività didattiche integrative (esercitazioni, tutorati, laboratori, etc...) sono utili all'apprendimento della materia?	16	0	0	4	12	0	100	
9	L'insegnamento è stato svolto in maniera coerente con quanto dichiarato sul sito Web del corso di studio?	16	0	0	4	12	0	100	
10	Il docente è reperibile per chiarimenti e spiegazioni? *freq >= 50%	16	0	0	1	15	0	100	
12	E' interessato/a agli argomenti trattati nell'insegnamento?	16	0	0	3	13	0	100	
							Medie:	1,71	98,30

Andamento medio a livello di Attività didattica (%)



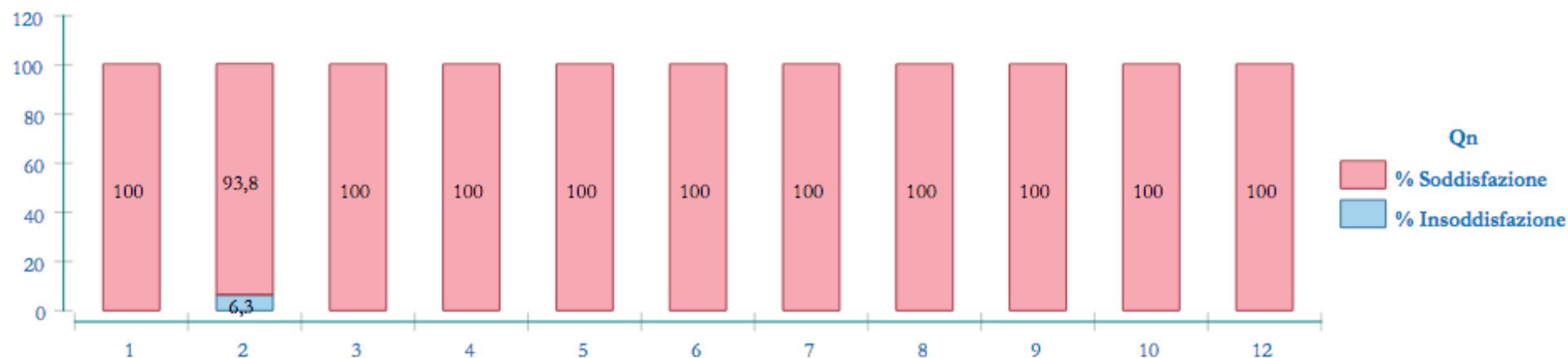
Practice

A.D.: ANATOMIC PATHOLOGY

U.D.: ANATOMIC PATHOLOGY

Qn	Quesito	Num	No	No_Si	Si_No	Si	TIR	A - Z
							% Ins	% Sod
1	Le conoscenze preliminari possedute sono risultate sufficienti per la comprensione degli argomenti previsti nel programma d'esame?	16	0	0	4	12	0	100
2	Il carico di studio dell'insegnamento è proporzionato ai crediti assegnati?	16	0	1	6	9	6,3	93,8
3	Il materiale didattico (indicato e disponibile) è adeguato per lo studio della materia?	16	0	0	6	10	0	100
4	Le modalità di esame sono state definite in modo chiaro?	16	0	0	4	12	0	100
5	Gli orari di svolgimento di lezioni, esercitazioni e altre eventuali attività didattiche sono rispettati?	15	0	0	2	13	0	100
6	Il docente stimola/motiva l'interesse verso la disciplina?	16	0	0	2	14	0	100
7	Il docente espone gli argomenti in modo chiaro?	16	0	0	2	14	0	100
8	Le attività didattiche integrative (esercitazioni, tutorati, laboratori, etc...) sono utili all'apprendimento della materia?	16	0	0	4	12	0	100
9	L'insegnamento è stato svolto in maniera coerente con quanto dichiarato sul sito Web del corso di studio?	16	0	0	4	12	0	100
10	Il docente è reperibile per chiarimenti e spiegazioni? *freq >= 50%	16	0	0	1	15	0	100
12	E' interessato/a agli argomenti trattati nell'insegnamento?	16	0	0	4	12	0	100
Medie:							0,57	99,44

Andamento medio a livello di Attività didattica (%)



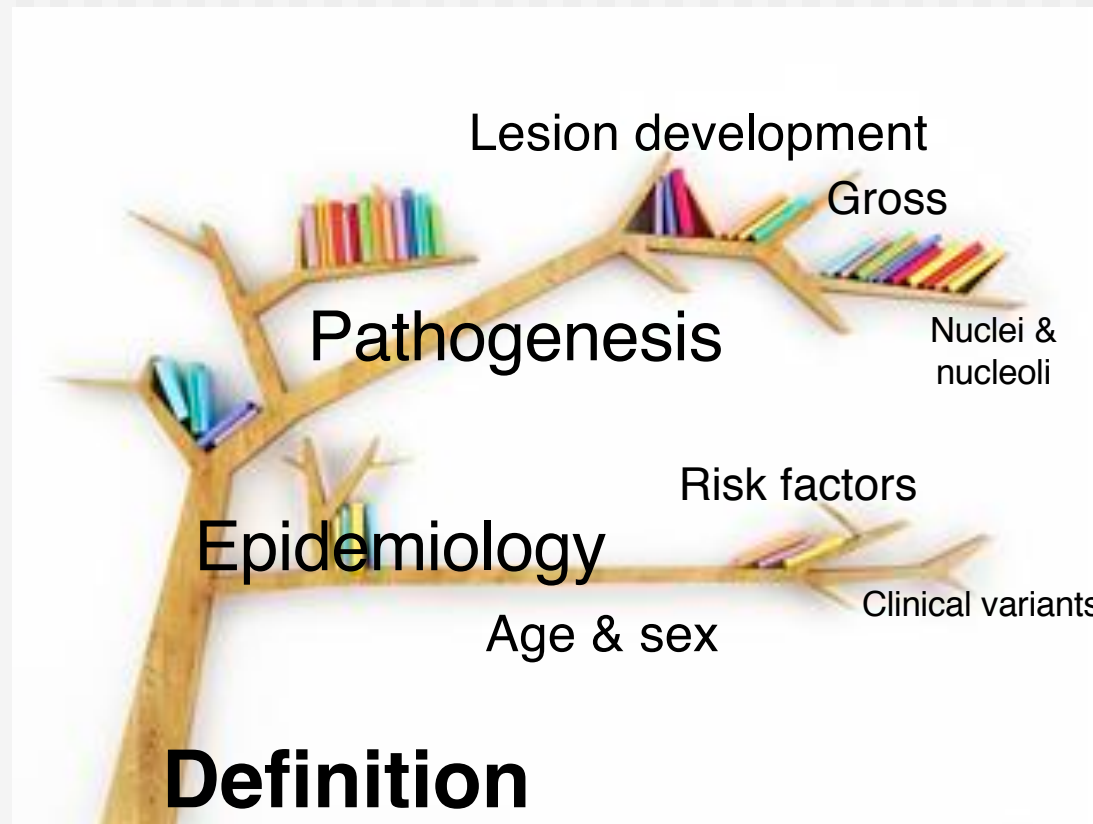
Anatomic Pathology

- The learning tree concept!



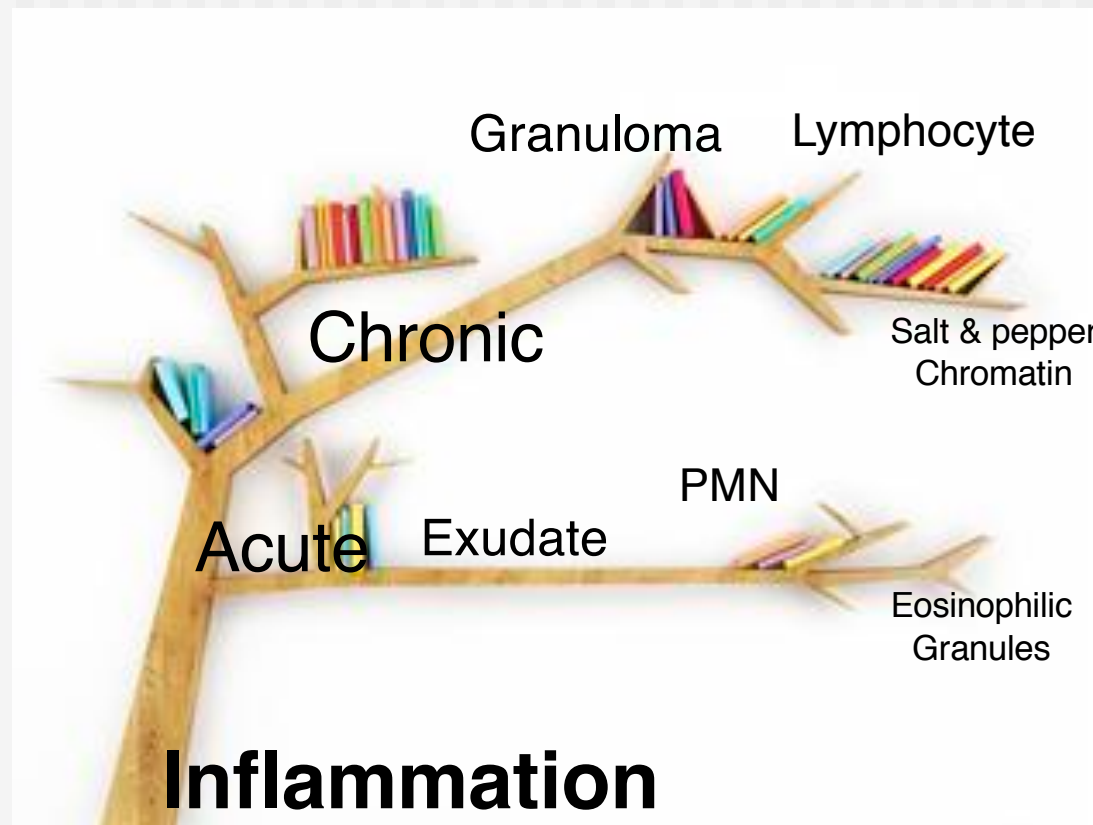
Anatomic Pathology

- The learning tree concept!



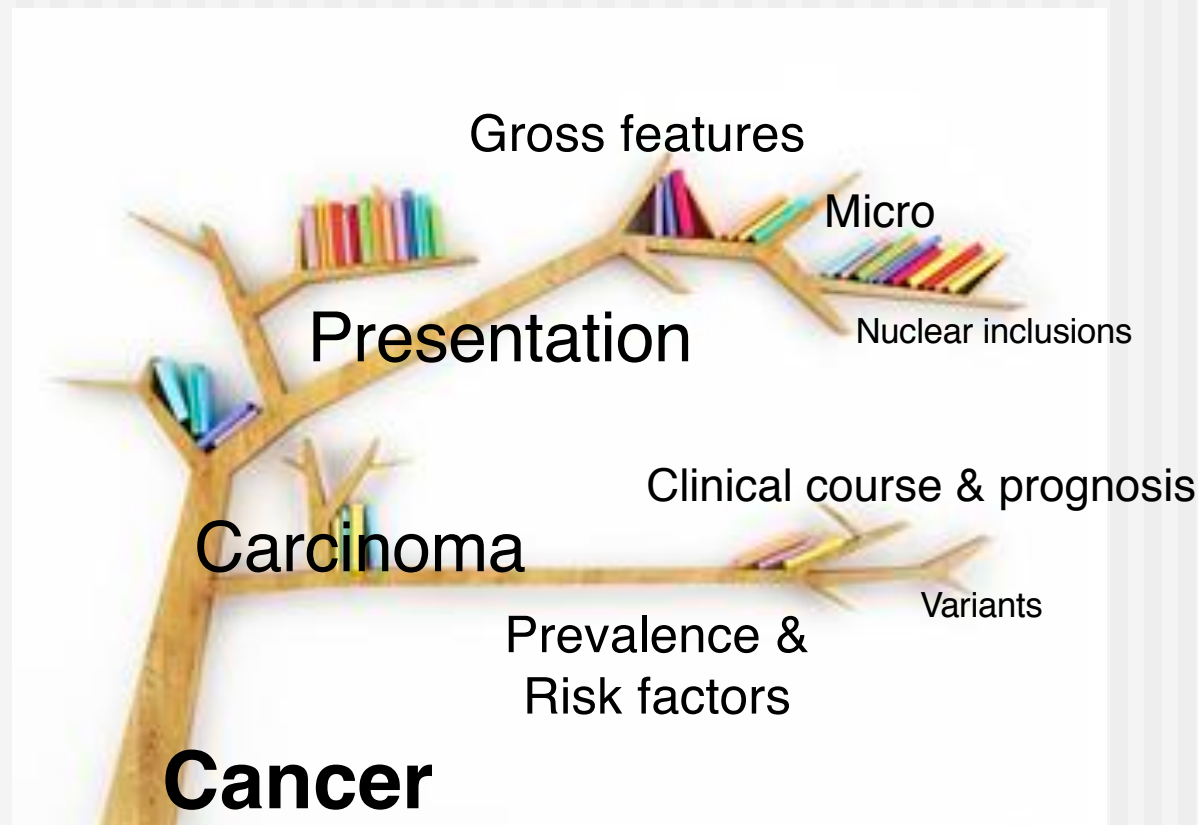
Anatomic Pathology

- The learning tree concept!



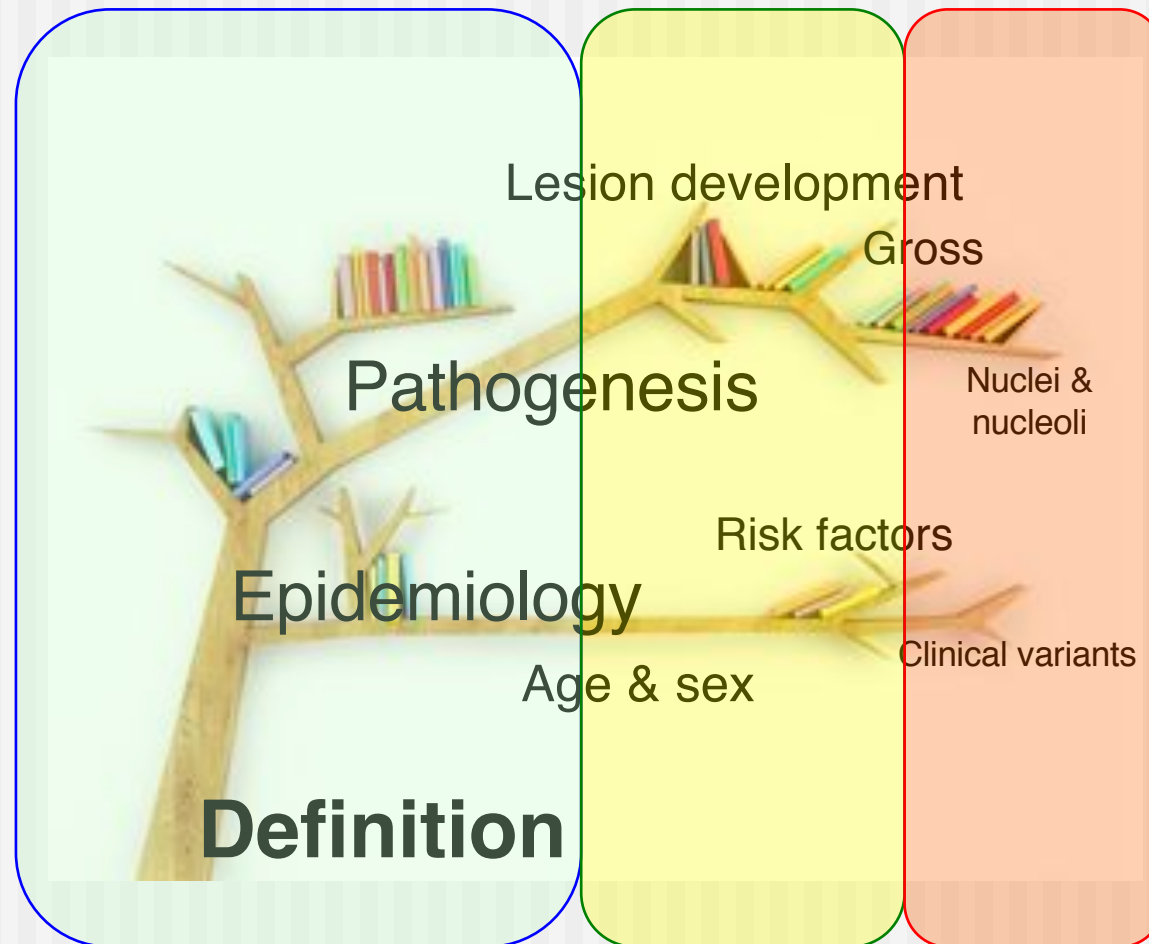
Anatomic Pathology

- The learning tree concept!

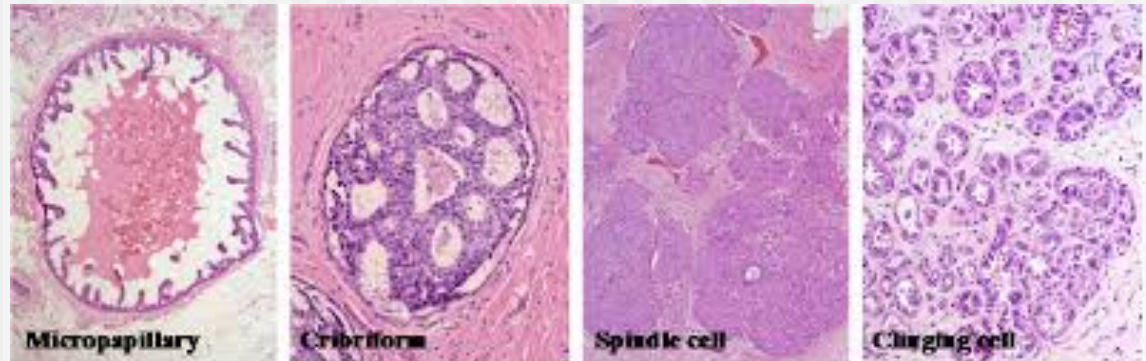


Anatomic Pathology

- The learning tree concept!



Why the major concern of a medical student approaching breast cancer are nuclei and nucleoli?



What is the rationale for answering a question on lung cancer starting with: “they may be classified as follows...”

TABLE 1. 2015 WHO Classification of Lung Tumors^{a,b,c}

Histologic Type and Subtypes	ICDO Code
Epithelial tumors	
Adenocarcinoma	8140/3
Lepidic adenocarcinoma*	8250/3 ^d
Acinar adenocarcinoma	8551/3 ^d
Papillary adenocarcinoma	8260/3
Micropapillary adenocarcinoma*	8265/3
Solid adenocarcinoma	8230/3
Invasive mucinous adenocarcinoma*	8253/3 ^d
Mixed invasive mucinous and nonmucinous adenocarcinoma	8254/3 ^d
Colloid adenocarcinoma	8480/3
Fetal adenocarcinoma	8333/3
Enteric adenocarcinoma*	8144/3
Minimally invasive adenocarcinoma*	
Nonmucinous	8256/3 ^d
Mucinous	8257/3 ^d
Preinvasive lesions	
Atypical adenomatous hyperplasia	8250/0 ^d
Adenocarcinoma in situ*	
Nonmucinous	8250/2 ^d
Mucinous	8253/2 ^d
Squamous cell carcinoma	8070/3
Keratinizing squamous cell carcinoma*	8071/3
Nonkeratinizing squamous cell carcinoma*	8072/3
Basaloid squamous cell carcinoma*	8083/3
Preinvasive lesion	
Squamous cell carcinoma in situ	8070/2
Neuroendocrine tumors	
Small cell carcinoma	8041/3
Combined small cell carcinoma	8045/3
Large cell neuroendocrine carcinoma	8013/3
Combined large cell neuroendocrine carcinoma	8013/3
Carcinoid tumors	
Typical carcinoid tumor	8240/3
Atypical carcinoid tumor	8249/3
Preinvasive lesion	
Diffuse idiopathic pulmonary neuroendocrine cell hyperplasia	8040/0 ^d
Large cell carcinoma	8012/3
Adenosquamous carcinoma	8560/3
Sarcomatoid carcinomas	
Pleomorphic carcinoma	8022/3
Spindle cell carcinoma	8032/3
Giant cell carcinoma	8031/3
Carcinosarcoma	8980/3
Pulmonary blastoma	8972/3
Other and Unclassified carcinomas	
Lymphoepithelioma-like carcinoma	8082/3
NUT carcinoma*	8023/3 ^d
Salivary gland-type tumors	
Mucoepidermoid carcinoma	8430/3
Adenoid cystic carcinoma	8200/3
Epithelial-myoepithelial carcinoma	8562/3
Pleomorphic adenoma	8940/0

TABLE 1. (Continued)

Histologic Type and Subtypes	ICDO Code
Papillomas	
Squamous cell papilloma	8052/0
Exophytic	8052/0
Inverted	8053/0
Glandular papilloma	8260/0
Mixed squamous and glandular papilloma	8560/0
Adenomas	
Sclerosing pneumocytoma*	8832/0
Alveolar adenoma	8251/0
Papillary adenoma	8260/0
Mucinous cystadenoma	8470/0
Mucous gland adenoma	8480/0
Mesenchymal tumors	
Pulmonary hamartoma	8992/0 ^d
Chondroma	9220/0
PEComatous tumors*	
Lymphangiomyomatosis	9174/1
PEComa, benign*	8714/0
Clear cell tumor	8005/0
PEComa, malignant*	8714/3
Congenital peribronchial myofibroblastic tumor	8827/1
Diffuse pulmonary lymphangiomatosis	
Inflammatory myofibroblastic tumor	8825/1
Epithelioid hemangioendothelioma	9133/3
Pleuropulmonary blastoma	8973/3
Synovial sarcoma	9040/3
Pulmonary artery intimal sarcoma	9137/3
Pulmonary myxoid sarcoma with <i>EWSR1-CREB1</i> translocation ^d	8842/3 ^d
Myoepithelial tumors*	
Myoepithelioma	8982/0
Myoepithelial carcinoma	8982/3
Lymphohistiocytic tumors	
Extranodal marginal zone lymphomas of mucosa-associated lymphoid tissue (MALT lymphoma)	9699/3
Diffuse large cell lymphoma	9680/3
Lymphomatoid granulomatosis	9766/1
Intravascular large B cell lymphoma*	9712/3
Pulmonary Langerhans cell histiocytosis	9751/1
Erdheim-Chester disease	9750/1
Tumors of ectopic origin	
Germ cell tumors	
Teratoma, mature	9080/0
Teratoma, immature	9080/1
Intrapulmonary thymoma	8580/3
Melanoma	8270/3
Meningioma, NOS	9530/0
Metastatic tumors	

^aThe morphology codes are from the ICDO.² Behavior is coded /0 for benign tumors, /1 for unspecified, borderline or uncertain behavior, /2 for carcinoma in situ and grade III intraepithelial neoplasia, and /3 for malignant tumors.
^bThe classification is modified from the previous WHO classification¹ taking into account changes in our understanding of these lesions.
^cThis table is reproduced from the 2015 WHO Classification by Travis et al.¹
^dThese new codes were approved by the International Agency on Cancer Research/WHO Committee for ICDO.
^eNew terms changed or entities added since 2004 WHO Classification.
 LCNEC, large cell neuroendocrine carcinoma, WHO, World Health Organization; ICDO International Classification of Diseases for Oncology.



Pure masochism: “soft tissue tumours may be classified...”!!!



SOFT TISSUE TUMOURS

WHO Classification of Soft Tissue Tumours 9

1 Adipocytic tumours	19
Lipoma	20
Lipomatosis	23
Lipomatosis of nerve	24
Lipoblastoma / Lipoblastomatosis	26
Angiolipoma	28
Myolipoma of soft tissue	29
Chondroid lipoma	30
Spindle cell lipoma / Pleomorphic lipoma	31
Hibernoma	33
Atypical lipomatous tumour / Well differentiated liposarcoma	35
Dedifferentiated liposarcoma	38
Myxoid liposarcoma	40
Pleomorphic liposarcoma	44
Mixed-type liposarcoma	46
2 Fibroblastic / Myofibroblastic tumours	47
Nodular fasciitis	48
Proliferative fasciitis and proliferative myositis	50
Myositis ossificans and fibrous pseudotumour of digits	52
Ischaemic fasciitis	55
Elastofibroma	56
Fibrous hamartoma of infancy	58
Myofibroma / Myofibromatosis	59
Fibromatosis colli	61
Juvenile hyaline fibromatosis	63
Inclusion body fibromatosis	64
Fibroma of tendon sheath	66
Desmoplastic fibroblastoma	67
Mammary-type myofibroblastoma	68
Calcifying aponeurotic fibroma	69
Angiomyofibroblastoma	71
Cellular angiofibroma	73
Nuchal-type fibroma	75
Gardner fibroma	76
Calcifying fibrous tumour	77
Giant cell angiofibroma	79
Superficial fibromatosis	81
Desmoid-type fibromatosis	83
Lipofibromatosis	85
Extrapleural solitary fibrous tumour and haemangiopericytoma	86
Inflammatory myofibroblastic tumour	91
Low grade myofibroblastic sarcoma	94

Myxoinflammatory fibroblastic sarcoma	96
Infantile fibrosarcoma	98
Adult fibrosarcoma	100
Myxofibrosarcoma	102
Low grade fibromyxoid sarcoma	104
Sclerosing epithelioid fibrosarcoma	106
3 So-called fibrohistiocytic tumours	109
Giant cell tumour of tendon sheath	110
Diffuse-type giant cell tumour	112
Deep benign fibrous histiocytoma	114
Plexiform fibrohistiocytic tumour	116
Giant cell tumour of soft tissue	118
Pleomorphic malignant fibrous histiocytoma / Undifferentiated high grade pleomorphic sarcoma	120
Giant cell malignant fibrous histiocytoma / Undifferentiated pleomorphic sarcoma with giant cells	123
Inflammatory malignant fibrous histiocytoma / Undifferentiated pleomorphic sarcoma with prominent inflammation	125
4 Smooth muscle tumours	127
Angioleiomyoma	128
Leiomyoma of deep soft tissue	130
Leiomyosarcoma	131
5 Pericytic (perivascular) tumours	135
Glomus	135
Myoper	135
8 Chondro-osseous tumours	179
Soft tissue chondroma	180
Extraskeletal osteosarcoma	182
6 Skelet	
Rhabd	
Embryo	
9 Tumours of uncertain differentiation	185
Intramuscular myxoma	186
Alveolar	188
Deep 'aggressive' angiofibroma	189
Pleomorphic hyalinizing angiectatic tumour of soft parts	191
Haemat	192
Ectopic hamartomatous thymoma	192
Angiomatoid fibrous histiocytoma	194
Ossifying fibromyxoid tumour	196
Mixed tumour / Myoepithelioma / Parachordoma	198
Angiom	200
Lympha	200
Kaposi	205
Retiform	205
Alveolar soft part sarcoma	208
Papillar	211
Comp	211
Clear cell sarcoma of soft tissue	213
Extraskeletal myxoid chondrosarcoma	213
Kaposi	215
Malignant mesenchymoma	215
Other in	216
Epitheli	216
Angiose	219
Neoplasms with perivascular epithelioid cell differentiation (PEComas)	221
Intimal sarcoma	223

BONE TUMOURS

WHO Classification of Bone Tumours 225

10 Cartilage tumours	233
Osteochondroma	234
Chondromas	237
Chondroblastoma	241
Chondromyxoid fibroma	243
Synovial chondromatosis	246
Chondrosarcoma	247
Dedifferentiated chondrosarcoma	252
Mesenchymal chondrosarcoma	255
Clear cell chondrosarcoma	257
11 Osteogenic tumours	259
Osteoid osteoma	260
Osteoblastoma	262
Conventional osteosarcoma	264
Telangiectatic osteosarcoma	271
Small cell osteosarcoma	273
Low grade central osteosarcoma	275
Secondary osteosarcoma	277
Parosteal osteosarcoma	279
Periosteal osteosarcoma	282
High grade surface osteosarcoma	284
12 Fibrogenic tumours	287
Desmoplastic fibroma of bone	288
Fibrosarcoma of bone	289

13 Fibrohistiocytic tumours	291
Benign fibrous histiocytoma of bone	292
Malignant fibrous histiocytoma of bone	294
14 Ewing sarcoma / Primitive neuroectodermal tumour	297
Ewing tumour / PNET	298
15 Haematopoietic tumours	301
Plasma cell myeloma	302
Malignant lymphoma	306
16 Giant cell tumours	309
Giant cell tumour	310
Malignancy in giant cell tumour	313
17 Notochordal tumours	315
Chordoma	316
18 Vascular tumours	319
Haemangioma and related lesions	320
Angiosarcoma	322
19 Myogenic, lipogenic, neural, and epithelial tumours	325
Leiomyoma of bone	326
Leiomyosarcoma of bone	327
Lipoma of bone	328
Liposarcoma of bone	330
Schwannoma	331
Adamantinoma	332
Metastases involving bone	334
20 Tumours of undefined neoplastic nature	337
Aneurysmal bone cyst	338
Simple bone cyst	340
Fibrous dysplasia	341
Osteofibrous dysplasia	343
Langerhans cell histiocytosis	345
Erdheim-Chester disease	347
Chest wall hamartoma	348
21 Congenital and inherited syndromes	349
Familial adenomatous polyposis	352
Beckwith-Wiedemann syndrome	354
Enchondromatosis: Ollier disease and Maffucci syndrome	356
McCune-Albright syndrome	357
Multiple osteochondromas	360
Retinoblastoma syndrome	363
Rothmund-Thomson syndrome	365
Werner syndrome	366
Contributors	369
Source of charts and photographs	374
References	376
Subject index	420

Anatomic Pathology

Study plan- 1

■ **Be schematic!**

⇒ **Definition**

⇒ **Epidemiology**

- Age, sex, geografic variability

- **Risk factors**

⇒ **Etio-Pathogenesis**

- Chemical and physical agents

- Biological agents (virus, bacteria, **mycetes, protozoa, parasites**)

- Immune factors

- Malformations & genetic alterations

- Others / unknown

Anatomic Pathology

Study plan- 2

■ Be schematic!

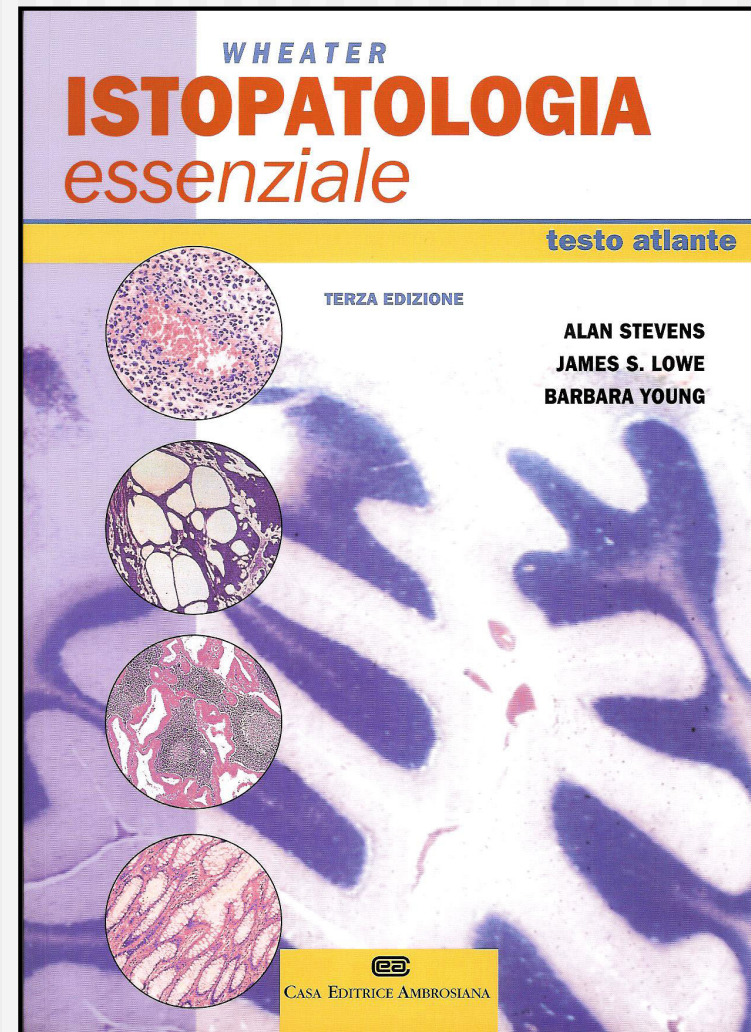
- ⇒ Variants
- ⇒ Clinical course
- ⇒ Macroscopy (objective examination)
 - Size, shape, color, consistency
- ⇒ Microscopy (and variants)
- ⇒ Evolution and **complications**

Anatomic Pathology

Textbooks:

Where to start

- **Wheater: Essential histopathology**



Anatomic Pathology

Textbooks

- **Robbins & Cotran 9th Ed. 2015**
 - ⇒ General & systematic pathology
 - ⇒ Online access to extra-contents (clinical cases, virtual microscopy, references)
 - ⇒ **Self-assessment tests**

Anatomia Patologica I Semestre

Testi consigliati

- **Rubin et al.** (Ed. CEI)
 - ⇒ Sintetico, anche Pat. Gen.
- **McGee-Isaacson-Wright** (Ed. Zanichelli)
 - ⇒ Vol. 1 (Principi) Voll. 2a-2b (Sistematica)
 - ⇒ Difficile reperibilità, costoso ma esaustivo

Anatomic Pathology

Exams

- Closed dates!
- Ongoing test (**one time only**): quiz + oral
- Final exam: quiz (remains for 3 calls) + oral
- Digital registration
- Book 3 working days in advance
- Follow sessions (and learn from other people's mistakes, you cannot live long enough to make them all by yourself)!!

Anatomic Pathology

#	▲ Data Iscr. ▼	▲ Matricola ▼	▲ ▼	Cognome e Nome	Anno Freq.	CFU	Esito	Canc
1	05/02/2014				2013/2014	8	30	●
2	11/02/2014				2013/2014	8	26	●
3	07/02/2014				2013/2014	8	30	●
4	07/02/2014				2013/2014	8	30L	●
5	03/02/2014				2013/2014	8	30L	●
6	11/02/2014				2013/2014	8	30	●
7	11/02/2014				2013/2014	8	30L	●
8	12/02/2014				2012/2013	8	28	●

Anatomic Pathology

Attendance

- **Compulsory** (67% frontal, 67% practice)
- No Badge (on paper!!!)
- Do you like to cheat?:
 - 1st time = 2 days cancelled
 - 2nd time = 1 week cancelled
 - 3rd time = whole semestre cancelled

Anatomic Pathology

Meet the professor

- **Mondays 10,00 – 12,00**
- **Consultation/appointment by email**
eugenio.maiorano@uniba.it
andrea.marzullo@uniba.it

Anatomic Pathology

Useful links

www.uniba.it/didattica/english-medical-curriculum

www.bemc.uniba.it/?lang=en

<http://bemc.eu/>

<https://thepathologist.com/>

<http://www.webpathology.com/>

<http://path.upmc.edu/cases/index.html>

<http://www.path.uiowa.edu/virtualslidebox/>

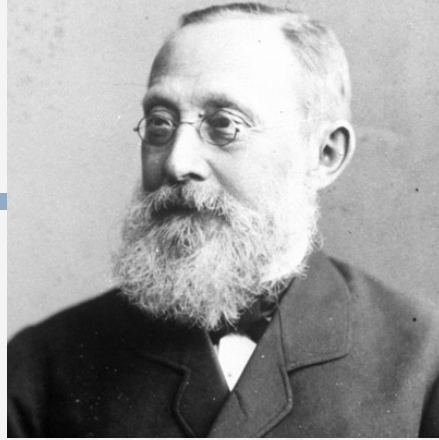
Anatomic Pathology



G.B. Morgagni



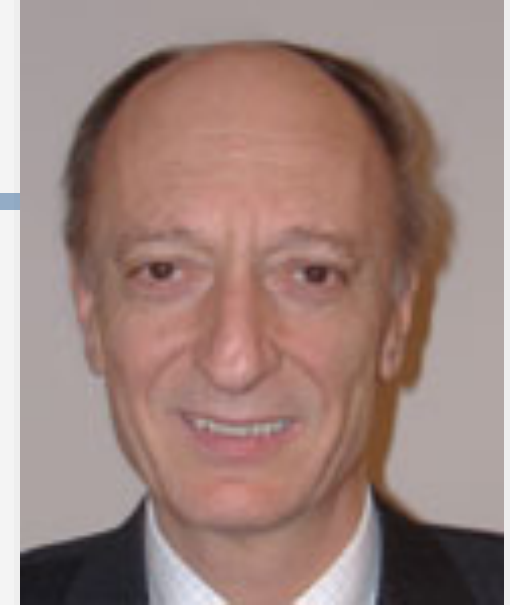
R. Virchow



G. De Benedictis



G. Viale



U. Veronesi

« No bunch of experiments will ever demonstrate I'm right; one single experiment can obviously demonstrate I'm wrong. »
([Albert Einstein](#), letter to [Max Born](#), december 4, [1926](#))