# Course of PATHOLOGICAL ANATOMY AND HISTOLOGY I

**Scientific Fields:** Pathology (MED/08)

**European Credit Transfer and Accumulation System = 5 – (60 hours)**
- n. hours of Formal Lectures = 35
- n. hours of Interactive Learning Activities = 25

**Coordinator:** Prof. Stefania Staibano,
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Didactic Secretariat: e-mail: arico@unina.it

### Coordinator

<table>
<thead>
<tr>
<th>Coordinator</th>
<th>Course</th>
<th>Insegnamento</th>
<th>S.S.D.</th>
<th>Year</th>
<th>Semester</th>
<th>Faculty 2018-2019</th>
<th>Position</th>
<th>Department</th>
<th>Reception (day/time/building)</th>
<th>e-mail</th>
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<tbody>
<tr>
<td>Stefania Staibano</td>
<td>Pathological Anatomy and Histology I</td>
<td>MED/08</td>
<td>4</td>
<td>1</td>
<td>18</td>
<td>Staibano Stefania</td>
<td>Full Professor</td>
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<td>Pathological Anatomy and Histology I</td>
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<td>18</td>
<td>Giancarlo Troncone</td>
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<td>Insabato Luigi</td>
<td>RU</td>
<td>Scienze Biomediche Avanzate</td>
<td>ADF + ADI</td>
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<td>Wed/Fri 15-18/Bldg.20, 4th fl</td>
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EDUCATIONAL OBJECTIVES

• To teach the student the morphologically detectable cellular changes, tissue and organs caused by disease. • To detect, through the anatomical and clinical studies, the relationship between signs, clinically significant symptoms and morphologically detectable lesions from which they originate • To understand the role and use of the anatomo-pathologist in terms of prevention, diagnosis, prognosis and treatment of diseases. To become familiar with the anatomo-pathologic terminology • Know the main purpose of the diagnostic autopsy examination • Know the indications for different types of biopsy • Know how to make a request for cyto-histological examinations • Know the indications and limitations of the intraoperative extemporaneous examination. • Know the morphology of the elementary lesions • Critically engage with the ethical problems connected with the anatomical cyto-histological diagnosis (informed consent and professional responsibilities). • Set in terms of the cooperation the relationship with the morphologist • Assess the contribution of Pathology at "evidence based medicine” • Frame the indications and limitations of cytology. • Understanding the basics of molecular biology and genetics useful for the diagnosis and the therapeutic approach of neoplastic diseases.

CORE CURRICULUM

The ROLE OF PATHOLOGY IN DIAGNOSIS OF DISEASES.

There will be treated the fundamental pathological processes in the field of inflammation and reparative processes. Particular importance will be given to the morphology of tumors, with constant and precise references to the basics of molecular biology, WITH A PARTICULAR FOCUS ON the role of pathologists in the EVALUATION OF PROGNOSTIC AND PREDICTIVE tumor BIOMARKERS.

It will be underlined the characteristics of the main cyto-histo-pathological techniques, with special regards to the modern molecular and quantitative pathology. It will be evidenced the role of pathology in modern personalized medicine and research. It will be provided to the students the key for facilitate a real integration between the clinical aspects and morphology.

It will be explained the complementary diagnostic role of histopathology and Cytopathology and the role of cytopathology in cancer prevention.

PATHOLOGY: INFECTIOUS DISEASES• Frame the clinic of infectious diseases in the light of the morphological picture • Evaluate and learn to manage the cyto-
histological and molecular biology techniques for the detection of infectious agents • Keep up-to-date of infectious diseases issues of migrants, correlated with the pathological anatomy.

PATHOLOGY: ENDOCRINOLOGY • Know the morphological diagnostic aspects of the neoplastic and non-neoplastic diseases of the thyroid, parathyroids, cortical and adrenal medulla • Understand the pathology of hereditary endocrine tumors.

GASTROENTEROLOGY AND HEPATOLOGY • Propose the use of various techniques in the cyto-histological diagnosis and research in gastrointestinal and liver disease • Know the main anatomical and histological frameworks of "inflammatory" digestive disease • Know the morphological preventive and diagnostic aspects within the disease of the stomach and large intestine • Recognize the main morphological problems of the liver and biliary tract pathology • Become familiar with the genetic problems in gastrointestinal and hepatic pathology • know the cyto-histologic aspects of the non neoplastic and neoplastic pancreatic pathology

PATHOLOGY OF LYMPH NODES, BONE MARROW, SPLEEN • Know the impact of the immunological damage on various organs and systems • Recognize the morphological aspects related to AIDS • Evaluate the morphological peculiarities of the lymph nodes and bone marrow examination • Recognize the impact of morphology in the prognosis and treatment of diseases of the lymph nodes and bone marrow; • Recognize the main morphological changes of the lymph nodes • Recognize the peculiarities of Hodgkin's and non-Hodgkin lymphomas • Understand the implications of the morphology in the malignancy of the lymph nodes and spinal • Know the istomorphological patterns of splenomegaly. • Get familiar with the applications of molecular biology in lymphadenopathy

SKIN DISEASES • Understand the role of skin biopsy in dermatology • Know the main elementary lesions of the skin, • Interpret the morphological alterations of non-neoplastic diseases, the biological potential of nevi • Know the morphological patterns of melanoma and the resulting biological and prognostic implications • Recognizing the distinctive peculiarities of morphological basal and squamous cell epitheliomas • Know the epigenetic basics of pigmented lesions.

HEAD & NECK PATHOLOGY: preneoplastic and neoplastic lesions of the oral cavity, with particular focus on Squamous cell Carcinoma; HPV related oropharyngeal carcinoma; salivary gland non neoplastic lesions and tumors.

PRELIMINARY KNOWLEDGE
For a proper understanding of the topics of the course the student must have acquired general knowledge on the cell morphology, tissue structure and functional organization (for each of body districts).

EXAMS
A test with multiple choice questions on all arguments listed in the program is preliminary to oral examination. Students must pass the written test for admission to oral examination
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<td>1st</td>
<td>Monday-Friday</td>
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| October 15th-19th, 2018 | | | **Introduction –**  
**The ROLE OF PATHOLOGY IN DIAGNOSIS OF DISEASES.**  
Stefania Staibano (ADF)  
Umberto Malapelle (ADI) |
| 2nd  | Monday-Friday | 13:00-14:00 | ADF + ADI |
| October 22th-26th, 2018 | | | **INFECTIOUS DISEASES**  
Claudio Bellevicine (ADF + ADI)  
Luigi Insabato (ADF) |
| 3rd  | Monday-Friday | 13:00-14:00 | ADF + ADI |
| October 29-31 November 2nd, 2018 | | | **ENDOCRINOLOGY I**  
Giancarlo Troncone (ADF)  
Claudio Bellevicine (ADF + ADI) |
| 4th  | Monday-Friday | 13:00-14:00 | ADF + ADI |
| November 5-9, 2018 | | | **ENDOCRINOLOGY II**  
Luigi Insabato (ADF)  
Claudio Bellevicine (ADI) |
| 5th  | Monday-Friday | 13:00-14:00 | ADF + ADI |
| Nov. 12-16th, 2018 | | | **GASTROENTEROLOGY**  
Luigi Insabato (ADF + ADI) |
| 6th  | Monday-Friday | 13:00-14:00 | ADF + ADI |
| Nov. 19-23th, 2018 | | | **GASTROENTEROLOGY**  
Giancarlo Troncone (ADF) (predictive biomarkers)  
Umberto Malapelle (ADI) |
| 7th  | Monday-Friday | 13:00-14:00 | |  
**HEPATOLOGY**  
Luigi Insabato (ADF + ADI)  
Claudio Bellevicine (ADI) |
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<td>8&lt;sup&gt;th&lt;/sup&gt; Dec 3-6th 2018</td>
<td>Monday-Friday</td>
<td>ADF + ADI</td>
<td>LYMPH NODES, BONE MARROW, SPLEEN</td>
<td>Elena Vigliar (ADF + ADI) Luigi Insabato (ADF + ADI)</td>
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<td>9&lt;sup&gt;th&lt;/sup&gt; Dec 10-14th 2018</td>
<td>Monday-Friday</td>
<td>ADF + ADI</td>
<td>SKIN DISEASES</td>
<td>Stefania Staibano (ADF + ADI)</td>
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<td>10&lt;sup&gt;th&lt;/sup&gt; Dec 17-21th 2018</td>
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<td>ADF + ADI</td>
<td>HEAD &amp; NECK Pathology</td>
<td>Stefania Staibano (ADF + ADI) Claudio Bellevicine (ADI)</td>
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**TEXTBOOKS**

Robbins & Cotran Pathologic Basis of Disease

By Vinay Kumar, MBBS, MD, FRCPath, Abul K. Abbas, MBBS and Jon C. Aster, MD, PhD

eBook version included with print purchase.

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