



## PERSONAL INFORMATION

## Sofia Asioli

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## POSITION

## Medical doctor Surgical Pathology/ Research Assistant

## WORK EXPERIENCE

01/11/2005–31/10/2013

**Medical doctor Surgical pathology/Research assistant**

Prof ssa Anna Sapino, Turin (Italy)

## ACTIVITIES CLINICAL-CARE

June 2006 to November 2010: Appointed Executive Contribution of complex structure Assistance PATHOLOGY 3Units, PS-end, from the Company Sanitaria Ospedaliera S. Giovanni Battista di Torino.

November 2010- october 2013 Executive Power of Attorney Conferring investigative activities Diagnostic Management Histopathologic of diseases of the endocrine system and gastro-oesophageal in complex structure S.C. ANATOMY Pathological 3U, PA-end, from the University Hospital S. John the Baptist in Turin.

Recognition of allowances exclusivity report work- S.S.N.- five years at the hospital-Company San Giovanni Battista University of Turin, SC Anatomy and Histology 3 U.

2006-2009 Head of the Pathology Section in the Interdisciplinary Group on the Treatment of Lung Cancer (GIC) of the Hospital Molinette, Turin.

2010-October 2013 Head of Endocrine Pathology, neuroendocrine, Gastroenteric and the Pulmonary Department of Medical Sciences, University of Torino Ospedale Molinette

2012-October 2013 Head of the Pathology Section in the Interdisciplinary Group on Treatment of Cancer of the Thyroid and Endocrine Tumors (GIC) of the Hospital Molinette, Torino

2006-October 2013 during the five-year period 2006-2010, the cases examined macroscopically and histological cases cytological diagnosed during the welfare activities carried out at 50% of working hours amounted to 10,961 (Annual average of 2193 cases).

Turn regular necropsy activities.

## ACTIVITY 'SCIENTIFIC AND TEACHING

## Academic position

1/11 / 2013- present: University Researcher (MED / 08) of the Department of Medical Sciences, Department of Biomedical Sciences and neuromotor (DIBINEM) Section-Pathology.

2005-31 / 10/213: University Researcher (MED / 08) of the Department of Medical Sciences, University of Turin:

1/11/2005: Appointed Assistant Professor for the scientific areas MED / 08 sector at the Faculty of Medicine and Surgery of the University of Turin.

9/11/2008: Confirmation in the role of Assistant Professor for the scientific sector MED / 08 at the Faculty of Medicine and Surgery of the University of Turin.

2005-31 / 10/213: Teacher Course of Pathology, Specialist degree in Medicine and Surgery - headquarters of Turin

2005-present: Professor of Pathology, School of Specialties in Pathology, University of the Studies of Turin.

2007-31 / 10/213: Professor of Isto-cytopathology and gynecology; vaginal cytology and histo-cytological techniques in three-year Bachelor in Biomedical Laboratory Techniques Cuneo, University

of Turin.

2010-31 / 10/213: Tutor of the PhD in Molecular Medicine coordinated by Prof. M. Giovarelli, University of Turin.

2011-31 / 10/213: Professor of Pathology, School of Specialties in General Pathology, University of the Studies of Turin.

01/11/2013–Present **Medical doctor Surgical pathology /Research Assistant**

Professoressa Maria Pia Foschini, Bologna (Italy)

November 2013- present: Executive Power of Attorney Conferring investigative activities Diagnostic Management Histopathology 'SCIENTIFIC AND TEACHING

Academic position

1/11 / 2013- present: University Researcher (MED / 08) of the Department of Medical Sciences, Department of Biomedical Sciences and neuromotor (DIBINEM) Section-Pathology.

2015-present: Professor of Pathology, School of Specialties in Pathology, University of the Studies of Bologna.

2014-present : Professor of Pathology at the Laurea Magistrale a ciclo unico in Odontoiatria e protesi dentaria, University of Bologna.

2017-present: Professor in the Dottorato di Ricerca in Scienze Biomediche e Neuromotorie, Scuola di Medicina e Chirurgia, Università di Bologna, Italia coordinated by Prof. I. L. Cocco , University of Bologna.

27/02/2009–01/09/2009 **Visiting Clinician Surgical pathology**

Professor RV Lloyd, Mayo Clinic, Rochester (United States)

Department of Laboratory Medicine and Pathology, Mayo Clinic

Rochester:

My focus was on Pathophysiology of solid tumors. In particular, the primary clinical and scientific attention is paid to neoplasms of the head and neck, the Neuro-endocrine tumors and tumors of the breast.

## EDUCATION AND TRAINING

01/01/2010–30/11/2011 **Master di secondo livello in Dermatologia Pratica**

EQF level 8

Università degli Studi di Torino, torino (Italy)

Master's degree in Dermatology Practice, University of Turin vote 30/30 date of Thesis Master II second level 28/11/2011.

Main themes:

professional skills acquired:

more advanced and specialized techniques, including synthesis and evaluation, required to solve problems

complex research and / or innovation nell'ambito of dermatopathology focused especially to tumors the region of the head and neck and breast area to extend and redefine existing knowledge or professional practice.

Acquisition of the knowledge and use of morphological diagnostic techniques (such as in situ hybridization

fluorescent and immunohistochemistry) and molecular (comparative genomic hybridization, analysis of clonality

through analysis of the D-loop region of mitochondrial DNA and study of micro-RNA, Next Generation Sequencing), in the field of research and diagnostics in pathology and cytopathology anatomy.

- 01/11/2005–06/12/2016 **Diploma accademico di specializzazione in Anatomia Patologica** EQF level 8  
Università di Torino, Torino (Italy)  
Main themes:  
The School of Pathology trains specialists who have gained theoretical knowledge, scientific and Professional in the field of systematic pathology pathological autopsy, macroscopic, microscopic, ultrastructural and molecular, aimed at specific welfare activities of its' pathologist and all'attivit expert.  
acquired professional skills:  
Recognize and diagnose at the macroscopic and microscopic morphological alterations of organs, tissues and cells in cytological preparations, in biopsy material and in the course of diagnostic examination.  
Acquisition of skills in the 'application and interpretation of diagnostics in human pathology anatomical methods, histological, cytological, histochemical, immunohistochemical, ultrastructural and biology molecular, as well as capacity in the 'use of methods related to quality control and quantitative assessments.  
Are specific areas of competence of the specialists the autopsy diagnosis, macroscopic, histopathological, cytopathological, istocitopatologica intraoperative, ultrastructural and biomolecular characterization lesions of cells, tissues and organs and 'whole organism, for the diagnosis of them, also useful for the prognostic and therapeutic guidance, and for the evaluation of diagnosis and epicritica anatomoclinici related.  
degree: 70/70 CUM LAUDE, Thesis Specialit published in Cancer in 2007.
- 01/11/2002–31/10/2005 **Attendance for four years at the School of Specialization in Pathology** EQF level 8  
University of Bologna, Bologna (Italy)  
Main themes:  
The School of Pathology trains specialists who have gained theoretical knowledge, scientific and Professional in the field of systematic pathology pathological autopsy, macroscopic, microscopic, ultrastructural and molecular, aimed at specific welfare activities,  
acquired professional skills:  
Recognize and diagnose at the macroscopic and microscopic morphological alterations of organs, tissues and cells in cytological preparations, in biopsy material and in the course of diagnostic examination.  
Acquisition of skills in the 'application and interpretation of diagnostics in human pathology anatomical methods, histological, cytological, histochemical, immunohistochemical, ultrastructural and biology molecular, as well as capacity in the 'use of methods related to quality control and quantitative assessments.  
Are specific areas of competence of the specialists the autopsy diagnosis, macroscopic, histopathological, cytopathological, istocitopatologica intraoperative, ultrastructural and biomolecular characterization lesions of cells, tissues and organs and 'whole organism, for the diagnosis of them, also useful for the prognostic and therapeutic guidance, and for the evaluation of diagnosis and epicritica anatomoclinici related.
- 01/07/2002–31/07/2002 **Abilitazione in Medicina e Chirurgia Prima Sessione** EQF level 8  
University of Bologna, Bologna (Italy)  
Main themes:  
Acquisition of 'license to practice Medical and Surgical.

acquired professional skills:

Member of the Order of Physicians and Surgeons of Forl' Cesena from 18/07/2002 to date (enrolled) with ID number 04286.

01/11/1996–23/07/2001

**Bachelor of Medicine and Surgery**

EQF level 7

University of Bologna, Bologna (Italy)

Main themes:

Training a doctor at Level Initial Professional with a biomedical psycho-social culture, possesses That A multidisciplinary vision of Ed Integrated Problems of Health and Illness with An Education Oriented to the community, to the territory and basically to the Disease Prevention and promotion of greeting, and with a humanistic culture In His medically relevant implications.

Features Professional acquired the qualifying I was:

- a) Excellent ability to Human chat contact (communication skills);
- b) Ability to self-learning and self-evaluation (continuing education);
- c) Skills to analyze and solve Full autonomy in the issues connected with the medical practice together at a Good Clinical Practice Based On Scientific evidence (evidence based medicine);
- d) Custom constant updating of knowledge and skills, and Possession of methodological bases and cultural aimed at the acquisition and autonomous EVALUATION critical of new knowledge and skills (continued professional development);
- e) Good interdisciplinary work and Interprofessional Practice (interprofessional education);
- f) In-depth knowledge of methodological foundations necessary for a Correct Approach to Research scientific in the medical field, the Independent Together alluded
- g) information technology.

**PERSONAL SKILLS**

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
First Certificate in English FCE 2010-2011 Torino Centro linguistico di Ateneo (CLA) 2015-2016 Università di Bologna					

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills

Team spirit and the ability of teamwork and Management In the Individual Needs in Perception Business Scope Italian and American. I have got to develop skills through experience team Work (Interdisciplinary Group on Treatment of Cancer and Head and Neck, breast and lung) at The University of Turin and Bologna. Constructive attitude and great sense of comfort due to the attendance of multicultural environments in the era ESSENTIAL to interact with The Others to Achieve Shared objective on the Occasion of my working experience at Dep. of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota, United States, with Ricardo V Lloyd, MD PhD. Willingness to listen and to compared to the experience gained from volunteering at the Italian Red Cross. excellent skills communicative-relational acquired through experience of teaching at the University of Turin and Bologna.

Attitude and excellent ability to Human chat contact (communication

skills) with patients suffering from disorders gravi (neoplasms), acquired through experience of

medical pathologist At the National Cancer Institute (Milan), Molinette Hospital (Turin) and Bellaria Hospital (ASL Bologna).

**Organisational / managerial skills**

From 30/11/2010 31/10/2013: Executive Power of Attorney Conferring investigative activities Diagnostic Management

Histopathologic of diseases of the endocrine system and gastro-oesophageal in complex structure S.C. ANATOMY

Pathological 3U, PA-end, from the University Hospital S. John the Baptist in Turin.

Recognition of allowances exclusivity report work- S.S.N.- five years at the hospital-Company San Giovanni Battista University of Turin, SC Anatomy and Histology 3 U.

High professionalism in neuro-endocrine disease and esophageal-gastric.

2006-2009: Section Head of Pathological Anatomy of the Interdisciplinary Group on the Treatment of Lung Cancer (GIC) of the Hospital Molinette, Turin.

2010-31 / 10/213: Head of Pathology Endocrine, neuroendocrine, Gastroenteric and the Pulmonary Department of Medical Sciences, University of Turin-Ospedale Molinette

2012-31 / 10/213: Section Head of Pathological Anatomy of the Interdisciplinary Group on Privacy Cancer of the Thyroid and Endocrine Tumors (GIC) of the Hospital Molinette, Torino

1/11/2013-present: Executive Power of Attorney Conferring investigative activities Management histopathological diagnosis in

complex structure PATHOLOGY, PA-end, from the Local Health Bologna.

**CLINICAL TRIALS**

Co-responsible for the trials clincio HER-EAGLE (MO23009) sponsored by Roche. Dr. John Castegnaro, Clinical

Research Associate, MediData Ltd. - Research [www.medicdata.it](http://www.medicdata.it) c / o City Nova Service Center, Viale Virgilio

56 / A, 41123 Modena, Italy Tel: +39 059 88.60.134, Fax: +39 059 84.83.05.

Enrolling patients with advanced gastric adenocarcinoma positive Her2 closed in February 2012.

**RESEARCH PROJECTS FUNDED 2004-2015**

Responsible for research projects funded by the University of Turin (former Ministry of Education 60%) and funding from

Regione Piemonte (Piedmont Region Health Research finalized) and collaborator of numerous projects

Research funded by the Italian Association for Research on Cancer (IARC), these loans are available on the sites

[www.airc.it](http://www.airc.it), [www.sitouniversitario.cineca.it](http://www.sitouniversitario.cineca.it) and <http://www.ricerca-sanitaria-finalizzata.it>:

1. Grant Proposal AIRC 2004 Genetic relationship among atypical adenomatous hyperplasia, bronchioloalveolar

cell carcinoma and adenocarcinoma of the lung in collaboration with Dr. ssa Stefania Damiani, Section of

Pathology, Hospital "M. Malpighi", University of Bologna, Bellaria Hospital, Bologna, Italy.

2. Grant Proposal AIRC 2005: Genetic and functional characterization of lobular carcinoma of the breast for

clinical management, in collaboration with Prof. Vincenzo Eusebi MD FRC Path, Pathology Section, Hospital "M. Malpighi", University of Bologna, Bellaria Hospital, Bologna, Italy.

3. Grant Proposal AIRC 2007: Innovative diagnostic approach and molecular definition of poorly differentiated

thyroid carcinomas, in collaboration with Prof. Gianni Bussolati MD FRC Path, Department of Science Biomedical and Human Oncology, University of Turin, Italy.

4. Head of the former 60% Ministry of Education research project funded by the University of Turin

(Ministry of Education University of Turin

(Ex-60%) 2007): Neo-angiogenesis and transglutaminase 2 expression in peri-implant soft tissues: preliminary

evidence of a relation with implant failure through an automated histological approach using digital virtual

microscopy (using the Amira 4.0 software; TGS Template Graphics Software (<http://www.tgs.com>))

5. Head of the Research project funded by Health Research Finalized-Piedmont Region 2007:

poorly differentiated thyroid carcinoma: new indicators of fitness and sobriety 'of care

collaboration with Prof. Gianni Bussolati MD FRC Path, Department of Biomedical Sciences and Oncology

Human, University of Turin, Italy.

6. Head of the Research project funded by the CRT Foundation in 2008 for the financing of: course

update in histopathology on endocrine pathology: the world organization classification dela

health 'and new markers in endocrine tumors, in collaboration with Prof. Gianni Bussolati MD FRC Path,

Department of Biomedical Sciences and Human Oncology, University of Turin, Italy.

7. Head of the former 60% Ministry of Education research project funded by the University of Turin (Ministry of Education University of Turin

2008: meaning amplification and 'overexpress p63 in carcinoma merkel skin cells,

collaboration with Prof. Mario Pippione MD, Department of Dermatopathology, University of Turin, Italy and

Prof. Paul Nighiem, Department of Medicine, University of Washington, Seattle, Washington 98109, USA.

8. Head of the research project funded by Health Research aimed Piedmont Region Year 2008:

Predittivit prognostic-therapeutic group of the expression of P63 In A Cell Carcinoma Of Merkel, in

collaboration with Prof. Mario Pippione MD, Department of Dermatopathology, University of Turin, Italy and

Prof. Paul Nighiem, Department of Medicine, University of Washington, Seattle, Washington 98109, USA.

9. Head of the research project funded by the Health Research aimed Region Piedmont-Proclamation for the

funding of health research projects aimed bis 2008: predittivit diagnostics and prognosticoterapeutica

Genomic status in malignant melanoma of the skin, in collaboration with Prof. Mario Pippione

MD, Dermatopathology, University of Turin, Italy, and with Prof. Anna Sapino, Department of Science Biomedical and Human Oncology, University of Turin, Italy.

10. Project manager Research World Wide Style (WWS) 2008-2009 funded by the University of Turin

as part of the mobility of university teachers: innovative diagnostic approach and molecular definition of

poorly differentiated thyroid carcinomas, in collaboration with Prof. Ricardo V. Lloyd, Departments Laboratory

Medicine and Pathology, MAYO Clinic, Minnesota - Rochester USA.

11. Head of the former 60% Ministry of Education research project funded by the University of Turin (Ministry of Education University of

Turin year: 2009-2010.

12. Head of the former 60% Ministry of Education research project funded by the University of Turin (Ministry of Education University of

Turin year: 2011-2012.

13. Head of the research project funded by the University of Bologna RFO year: 2013-2014.

14. the research project funded by the University of Bologna RFO year: 2014-2015.

#### Job-related skills

hemes:



Anatomy and Histology of tumors of the head and neck and breast cancer and screening breast, dermatopathology. Prognostic and predictive factors in oncology.

'shared:

organizational competence of the working groups of cancer diagnostic areas related to the region and Head

Neck and breast area before at SC anatomy and pathological histology, AOU City Health and Science of Turin and currently at U.O Pathology ASL Bologna Bellaria Hospital.

- Co-referent for the organization of training courses continues to Anatomy and pathologists specialists in the field of oncology diagnostics for cancers of the Head and Neck and Breast

Full knowledge and use of morphological diagnostic techniques (such as fluorescence in situ hybridization and

immunohistochemistry) and molecular (comparative genomic hybridization, of clonal analysis through analysis of

D-loop region of mitochondrial DNA and study of micro-RNA), in the field of research and diagnostics pathological anatomy and cytopathology.

Level in international classification ISCED 6, 1st Qualification

COMPANY 'OF MEMBERSHIP / AWARDS

Group member Multicenter Interest Group Merkel cell carcinoma (MMIG)

Member of the Italian Society of Pathology (IAP-SIAPEC) -section Head and Neck Group group GIPA-TeC study.

Member of the 'Adriatic Society of Pathology ASP

Member of 'Endocrine Society of Pathology ESP

Member of the Study Group on THYROID CANCER (GST) and of inter-Department interregional Oncology Network of Piedmont and Valle d'Aosta City Hospital Health and Science Presidium Molinette.

AWARDS

Paired Related Homeobox 1 (PRRX1) Is Associated with Epithelial-Mesenchymal Transition EMT in Thyroid

Tumors. Garcia CM, Guo Z, Hardin H, D Buehler, Nose V, Asiola S, et al. was selected in the Stowell-Orbison

Surgical Pathology Autopsy Awards Poster Session at United States, Canadian Academy of Pathology (USCAP)

Annual Meeting 2014, San Diego, CA, USA; Modern Pathology 2014 Feb.

Author of 67 publications, from 2002, on peer review journals, 4 book chapter, and 44 Abstracts published on peer review journals.

The current bibliometric data are:

Articles published in journals with Impact Factor: 67 to 67;

Impact Factor average article in a journal: 3.9

h-index: 19 Scopus 18 ISI Web of Science

Publication List:

Morandi L, Righi A, Maletta F, Rucci P, Pagni F, Gallo M, Rossi S, Caporali L, Sapino A, Lloyd RV, Asiola S. Somatic mutation profiling of hobnail variant of papillary thyroid carcinoma. *Endocr Relat Cancer*. 2017 Feb;24(2):107-117. doi: 10.1530/ERC-16-0546. PubMed PMID: 28062544.

2: Foschini MP, Morandi L, Asiola S, Giove G, Corradini AG, Eusebi V. The morphological spectrum of salivary gland type tumours of the breast. *Pathology*. 2017 Feb;49(2):215-227. doi: 10.1016/j.pathol.2016.10.011. Review. PubMed PMID: 28043647.

3: Tarsitano A, Asiola S, Morandi L, Monti V, Righi A, Morselli Labate AM, Nardi E, Foschini MP, Marchetti C. Laminin-5 and insulin-like growth factor-II mRNA binding protein-3 (IMP3) expression in preoperative biopsy specimens from oral cancer patients: Their role in neural spread risk and survival stratification. *J Craniomaxillofac Surg*. 2016 Dec;44(12):1896-1902. doi: 10.1016/j.jcms.2016.07.012.

PubMed PMID: 27863864.

4: Zhang R, Hardin H, Huang W, Chen J, Asiola S, Righi A, Maletta F, Sapino A, Lloyd RV. MALAT1 Long Non-coding RNA Expression in Thyroid Tissues: Analysis by In Situ Hybridization and Real-Time PCR. *Endocr Pathol.* 2017 Mar;28(1):7-12. doi: 10.1007/s12022-016-9453-4. PubMed PMID: 27696303; PubMed Central PMCID: PMC5313332.

5: Asiola S, Morandi L, Cavatorta C, Cucchi MC, Foschini MP. The impact of field cancerization on the extent of duct carcinoma in situ (DCIS) in breast tissue after conservative excision. *Eur J Surg Oncol.* 2016 Dec;42(12):1806-1813. doi: 10.1016/j.ejso.2016.07.005. PubMed PMID: 27546014.

6: Righi A, Faustini-Fustini M, Morandi L, Monti V, Asiola S, Mazzatenta D, Bacci A, Foschini MP. The changing faces of corticotroph cell adenomas: the role of prohormone convertase 1/3. *Endocrine.* 2016 Aug 4. [Epub ahead of print] PubMed PMID: 27491554.

7: La Rosa S, Bernasconi B, Frattini M, Tibiletti MG, Molinari F, Furlan D, Sahnane N, Vanoli A, Albarello L, Zhang L, Notohara K, Casnedi S, Chenard MP, Adsay V, Asiola S, Capella C, Sessa F. TP53 alterations in pancreatic acinar cell carcinoma: new insights into the molecular pathology of this rare cancer. *Virchows Arch.* 2016 Mar;468(3):289-96. doi: 10.1007/s00428-015-1882-9. PubMed PMID: 26586531.

8: Ceruti P, Asiola S, Mussano F, Righi A, Baldi I, Schierano G, Cassoni P, Carossa S. Transglutaminase 2 May Be Associated with Peri-implant Gingival Overgrowth: Preliminary Assessments. *Int J Prosthodont.* 2015 Nov-Dec;28(6):615-20. doi: 10.11607/ijp.4280. PubMed PMID: 26523722.

9: Morandi L, Gissi D, Tarsitano A, Asiola S, Monti V, Del Corso G, Marchetti C, Montebugnoli L, Foschini MP. DNA methylation analysis by bisulfite next-generation sequencing for early detection of oral squamous cell carcinoma and high-grade squamous intraepithelial lesion from oral brushing. *J Craniomaxillofac Surg.* 2015 Oct;43(8):1494-500. doi: 10.1016/j.jcms.2015.07.028. PubMed PMID: 26302938.

10: Guo Z, Hardin H, Montemayor-Garcia C, Asiola S, Righi A, Maletta F, Sapino A, Lloyd RV. In Situ Hybridization Analysis of miR-146b-5p and miR-21 in Thyroid Nodules: Diagnostic Implications. *Endocr Pathol.* 2015 May;26(2):157-63. doi: 10.1007/s12022-015-9363-x. PubMed PMID: 25771986.

11: Cinocca S, Rosini F, Asiola S, Del Vecchio M, Cucchi MC, Saguatti G, Betts CM, Foschini MP. Cytological features of nipple adenoma in scraping smears. *Pathologica.* 2014 Jun;106(2):41-4. PubMed PMID: 25291865.

12: Hardin H, Guo Z, Shan W, Montemayor-Garcia C, Asiola S, Yu XM, Harrison AD, Chen H, Lloyd RV. The roles of the epithelial-mesenchymal transition marker PRRX1 and miR-146b-5p in papillary thyroid carcinoma progression. *Am J Pathol.* 2014 Aug;184(8):2342-54. doi: 10.1016/j.ajpath.2014.04.011. PubMed PMID: 24946010; PubMed Central PMCID: PMC4116695.

13: Asiola S, Righi A, Volante M, Chiusa L, Lloyd RV, Bussolati G. Cell size as a prognostic factor in oncocyctic poorly differentiated carcinomas of the thyroid. *Hum Pathol.* 2014 Jul;45(7):1489-95. doi: 10.1016/j.humpath.2014.02.027. PubMed PMID: 24745614.

14: Asiola S, Foschini MP, Masetti R, Eusebi V. Working formulation of neuroendocrine tumors of the skin and breast. *Endocr Pathol.* 2014 Jun;25(2):141-50. doi: 10.1007/s12022-014-9319-6. Review. PubMed PMID: 24729037

15: Furlan D, Sahnane N, Bernasconi B, Frattini M, Tibiletti MG, Molinari F, Marando A, Zhang L, Vanoli A, Casnedi S, Adsay V, Notohara K, Albarello L, Asiola S, Sessa F, Capella C, La Rosa S. APC alterations are frequently involved in the pathogenesis of acinar cell carcinoma of the pancreas, mainly through gene loss and promoter hypermethylation. *Virchows Arch.* 2014 May;464(5):553-64. doi: 10.1007/s00428-014-1562-1. PubMed PMID: 24590585.

16: Bussolati G, Maletta F, Asiola S, Annaratone L, Sapino A, Marchiò C. "To be or not to be in a good shape": diagnostic and clinical value of nuclear shape irregularities in thyroid and breast cancer. *Adv Exp Med Biol.* 2014;773:101-21. doi: 10.1007/978-1-4899-8032-8\_5. Review. PubMed PMID: 24563345.

17: Filosso PL, Oliaro A, Ruffini E, Bora G, Lyberis P, Asiola S, Delsedime L, Sandri A, Guerrera F. Outcome and prognostic factors in bronchial carcinoids: a single-center experience. *J Thorac Oncol.* 2013 Oct;8(10):1282-8. doi: 10.1097/JTO.0b013e31829f097a. PubMed PMID: 24457239.

18: Montemayor-Garcia C, Hardin H, Guo Z, Larrain C, Buehler D, Asiola S, Chen H, Lloyd RV. The role of epithelial mesenchymal transition markers in thyroid carcinoma progression. *Endocr Pathol.* 2013 Dec;24(4):206-12. doi: 10.1007/s12022-013-9272-9. PubMed PMID: 24126800; PubMed Central PMCID: PMC3875396.

19: Asiola S, Maletta F, Pagni F, Pacchioni D, Vanzati A, Mariani S, Palestini N, Lloyd RV, Sapino A. Cytomorphologic and molecular features of hobnail variant of papillary thyroid carcinoma: case series



- and literature review. *Diagn Cytopathol.* 2014 Jan;42(1):78-84. doi: 10.1002/dc.23028. Review. PubMed PMID: 23913779.
- 20: Annaratone L, Volante M, Asiola S, Rangel N, Bussolati G. Characterization of neuroendocrine tumors of the pancreas by real-time quantitative polymerase chain reaction. A methodological approach. *Endocr Pathol.* 2013 Jun;24(2):83-91. doi: 10.1007/s12022-013-9246-y. PubMed PMID: 23657967.
- 21: Pugliese M, Fortunati N, Germano A, Asiola S, Marano F, Palestini N, Frairia R, Boccuzzi G, Catalano MG. Histone deacetylase inhibition affects sodium iodide symporter expression and induces 131I cytotoxicity in anaplastic thyroid cancer cells. *Thyroid.* 2013 Jul;23(7):838-46. doi: 10.1089/thy.2012.0359. PubMed PMID: 23531031.
- 22: Volante M, Daniele L, Asiola S, Cassoni P, Comino A, Coverlizza S, De Giulii P, Fava C, Manini C, Berruti A, Papotti M. Tumor staging but not grading is associated with adverse clinical outcome in neuroendocrine tumors of the appendix: a retrospective clinical pathologic analysis of 138 cases. *Am J Surg Pathol.* 2013 Apr;37(4):606-12. doi: 10.1097/PAS.0b013e318275d1d7. PubMed PMID: 23426123.
- 23: Negro R, Piana S, Ferrari M, Ragazzi M, Gardini G, Asiola S, Pacchioni D, Riganti F, Valcavi R. Assessing the risk of false-negative fine-needle aspiration cytology and of incidental cancer in nodular goiter. *Endocr Pract.* 2013 May-Jun;19(3):444-50. doi: 10.4158/EP12271.OR. PubMed PMID: 23337148.
- 24: Righi A, Asiola S, Caliendo V, Macripò G, Picciotto F, Risio M, Eusebi V, Bussolati G. An ultrasonography-cytology protocol for the diagnostic management of regional nodes in a subset of patients with Merkel cell carcinoma of the skin. *Br J Dermatol.* 2013 Mar;168(3):563-70. doi: 10.1111/bjd.12107. PubMed PMID: 23106631.
- 25: Marchiò S, Soster M, Cardaci S, Muratore A, Bartolini A, Barone V, Ribero D, Monti M, Bovino P, Sun J, Giavazzi R, Asiola S, Cassoni P, Capussotti L, Pucci P, Bugatti A, Rusnati M, Pasqualini R, Arap W, Bussolino F. A complex of  $\alpha 6$  integrin and E-cadherin drives liver metastasis of colorectal cancer cells through hepatic angiopoietin-like 6. *EMBO Mol Med.* 2012 Nov;4(11):1156-75. doi: 10.1002/emmm.201101164. PubMed PMID: 23070965; PubMed Central PMCID: PMC3494873.
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Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Proficient user	Proficient user

Digital competences - Self-assessment grid

office suite independent user

S.O. Windows (XP, VISTA), OFFICE (Word, Excell, Power Point), INTERNET, adobe photo shop, in Design

Driving licence B