

**DIPARTIMENTO ONCO-EMATOLOGICO e di MALATTIE INFETTIVE (DOEMI)**  
DIRETTORE DR GIORGIO GARDINI

<b>UNITA' OPERATIVA</b>	<b>ANATOMIA PATOLOGICA</b>
<b>DIRETTORE</b>	<b>GIORGIO GARDINI</b>
<b>REFERENTE</b> Innovazione e Ricerca	<b>ALBERTO CAVAZZA</b>

<b>Principali studi in corso</b>
<p>1) - Sartori G, Bettelli S, Schirosi L, Bigiani N, Maiorana A, Cavazza A, Rossi G. Microsatellite and EGFR, HER2 and K-RAS analyses in sclerosing hemangioma of the lung. In corso di pubblicazione su Am J Surg Pathol.</p> <p>2) Schiavina M, Di Scioscio V, Contini P, Cavazza A, Fabiani A, Barberis M, Bini A, Altimari A, Cooke RM, Grigioni WF, D'Errico-Grigioni A. Pulmonary lymphangioliomyomatosis in a karyotypically normal man without tuberous sclerosis complex. In corso di pubblicazione su Am J Respir Crit Care Med.</p> <p>3) Rossi G, Cavazza A, Guicciardi N, Marchioni A. Nodular histiocytic/mesothelial hyperplasia on trans-thoracic biopsy: another source of potential pitfall of a lesion frequently present in spontaneous pneumothorax. In corso di pubblicazione su Histopathology.</p> <p>4) Sartori G, Cavazza A, Bertolini F, Longo L, Macchioni A, Costantini M, Barbieri F, Migaldi M, Rossi G. A subset of lung adenocarcinomas and atypical adenomatous hyperplasias are genotypically related: a EGFR, HER-2 and K-RAS mutational analysis. In corso di pubblicazione su Am J Clin Pathol.</p> <p>5) Flora. Overall survival in primary colorectal cancer patients showing an increased EGFR gene copy number on neoplastic cell at the moment of surgical diagnosis.</p> <p>6) Gelli. Ricerca di marcatori biomolecolari mediante analisi proteomica e studio della metilazione del promotore del gene della cicloossigenasi-2 (COX-2) nel tumore ovarico (programma di ricerca Regione-Università 2007-2009, area tematica diagnostica avanzata).</p>

### **Principali collaborazioni scientifiche e clinico assistenziali**

- Valli: Collaborazioni in Ematologia (GISL, GIMEMA, LINFOCARE)
- Gardini, Piana, De Marco: Revisione Casistica Tumori della Tiroide con Prof. Rosai, Milano
- Cavazza: Collaborazioni varie in Patologia Polmonare (con Patologi ad esempio Prof. Colby Mayo Clinic Scottsdale, Pneumologi e Radiologi)
- Piana: Collaborazioni varie in Dermatopatologia

### **Associazioni Scientifiche e Gruppi Di Studio**

- Gardini, Gelli, Cavazza: Società Italiana di Anatomia Patologica e Citodiagnostica (SIAPEC)
- Cavazza: Gruppo Italiano Patologia Polmonare (GIIPP)
- Cavazza: Pulmonary Pathology Society
- Cavazza: European Commission Founded Study Group on Rare Lung and Pleural Diseases
- Cavazza: European Respiratory Society Reviewer Panel on the Pathologic Recommendations for the diagnosis of pulmonary lymphangiomyomatosis
- Gelli: Registro Tumori Reggio Emilia
- Gelli: Registro Mesotelioma Reggio Emilia
- Gelli: Mario Negri Gynecologic Oncology group (MaNGO)
- Gelli: Gruppo Interdisciplinare sui Tumori Neuroendocrini ASMN
- Gelli Gruppo Italiano di Anatomia Patologica dell'Embrione, del Feto e dei loro Annessi (G.I. APEFA)
- Prandi: Gruppo Italiano Screening Carcinoma del Collo dell'Utero (GISCI; Prandi Coordinatore Regionale Controllo di Qualità)
- Foroni: Gruppo Italiano Screening Carcinoma della Mammella
- De Marco: Gruppo Italiano Screening Carcinoma del Colon-Retto
- Nigrisoli: Linee Guida in Uropatologia dell'Associazione Urologi Ospedalieri (AURO)

### **Pubblicazioni (Medline) individuali o accorpati per U. O (dal 2004 ad oggi)**

7) **Piana S, Putrino I, Cavazza A, Nigrisoli E.**

Solitary fibrous tumour of the spinal nerve rootlet: report of a case mimicking schwannoma.  
Arch Pathol Lab Med 2004;128:335-337.

8) **Rossi G, Murer B, Cavazza A, Losi L, Natali P, Marchioni A, Migaldi M, Capitanio G, Brambilla E.**

Primary mucinous (so-called colloid) carcinomas of the lung. A clinicopathologic and immunohistochemical study with special reference to CDX-2 homeobox gene and MUC2 expression.

Am J Surg Pathol 2004;28:442-452.

9) **Vezzani G, Cavazza A, Rossi G, Pasquinelli G, Avanzini P, Asioli S, Piana S, Chilosi M.**

Pulmonary hyalinizing granuloma. Clinicopathologic study of 2 cases, with some original

ultrastructural observations and review of the literature.

Pathologica 2004;96:23-28.

- 10) Paci M, **Cavazza A**, Annessi V, Putrino I, Ferrari G, De Franco S, Sgarbi G.  
Large cell neuroendocrine carcinoma of the lung: a 10-year clinicopathologic retrospective study.  
Ann Thorac Surg 2004;77:1163-1167.
- 11) Pileri SA, **Cavazza A**, Schiavina M, Zompatori M, Pederzoli M, Goldfischer M, Sabattini E, Ascani S, Pasquinelli G, Bonetti F, Colby TV.  
Clear cell proliferation of the lung with lymphangioleiomyomatosis-like change.  
Histopathology 2004;44:156-163.
- 12) Dallari R, Foglia M, Paci M, **Cavazza A**.  
Acute exacerbation of idiopathic pulmonary fibrosis.  
Eur Respir J 2004;23:792.
- 13) **Cavazza A**, Lantuejoul S, Sartori G, Bigiani N, Maiorana A, Paci M, Pasquinelli G, Rossi G.  
Placental transmogrification of the lung. Clinicopathologic, immunohistochemical and molecular study of two cases, with particular emphasis on the interstitial clear cells.  
Hum Pathol 2004;35:517-521.
- 14) **Cavazza A**, Paci M, De Marco L, Leporati G, Sartori G, Bigiani N, Rossi G.  
Alveolar adenoma of the lung. A clinicopathologic, immunohistochemical and molecular study of an unusual case.  
Int J Surg Pathol 2004;12:155-159.
- 15) Barbareschi M, Roldo C, Zamboni G, Capelli P, **Cavazza A**, Macri E, Cangini G, Chilosi M, Doglioni C.  
CDX-2 homeobox gene expression in neuroendocrine tumors: its role as a marker of intestinal neuroendocrine tumors.  
Am J Surg Pathol 2004;28:1169-1176.
- 16) Rossi G, Bertolini F, Sartori G, Bigiani N, **Cavazza A**, **Froni M**, **Valli R**, Rindi G, De Gaetani C, Luppi G.  
Primary mixed adenocarcinoma and small cell carcinoma of the appendix: a clinicopathologic, immunohistochemical and molecular study of a hitherto unreported tumor.  
Am J Surg Pathol 2004;28:1233-1239.

- 17) Rossi G, **Cavazza A**.  
Mucinous (so-called colloid) carcinoma of the lung.  
Am J Surg Pathol 2004;28:1397.
- 18) Rossi G, Marchioni A, Milani M, Longo L, Migaldi M, **Cavazza A**.  
TTF-1, cytokeratin 7, 34 $\beta$ E12 and CD56/NCAM immunostaining in the subclassification of large cell carcinomas of the lung.  
Am J Clin Pathol 2004;122:884-893.
- 19) **Piana S**, Damiani S, Asioli S, Magrini E, Barbieri W, **Cavazza A**.  
EBV-positive lympho-epithelial carcinoma and epi-myoepithelial cell carcinoma of the parotid gland: a hitherto unreported example of hybrid tumour.  
Virchows Arch 2004;445:425-428.
- 20) Rossi G, Valli R, Bertolini F, Marchioni A, **Cavazza A**, Mucciarini C, Migaldi M, Federico M, Trentini GP, Sgambato A.  
PDGFR expression in differential diagnosis between KIT-negative gastrointestinal stromal tumours and other primary soft-tissue tumours of the gastrointestinal tract.  
Histopathology 2005;46:522-531.
- 21) **Piana S**, Asioli S, **Cavazza A**.  
Benign mullerian inclusions coexisting with breast metastatic carcinoma in an axillary lymph node.  
Virchows Arch 2005;446:469.
- 22) Kazakov DV, Suster S, LeBoit PE, Calonje E, Bisceglia M, Kutzner H, Rutten A, Mentzel T, Schaller J, Zelger B, Baltaci M, Leivo I, Rose C, Fukunaga M, Simpson RHW, Yang Y, Carlson JA, **Cavazza A**, Hes O, Mukensnabl P, Vanecek T, Fidalò A, Pizinger K, Michal M.  
Mucinous carcinoma of the skin, primary and secondary: a clinicopathologic study of 63 cases with emphasis on the morphologic spectrum of primary cutaneous forms: homologies with mucinous lesions in the breast.  
Am J Surg Pathol 2005;29:764-782.
- 23) Ricchetti T, Paci M, **Cavazza A**, Ferrari G, Annessi V, De Franco S, Sgarbi G.  
A case of metastatic epithelioid angiosarcoma in the lamina propria of a sigmoid tubulovillous adenoma.  
Tumori 2005;91:210-212.
- 24) Rossi G, Sartori G, Valli R, Bertolini F, Bigiani N, Schirosi L, **Cavazza A**, Luppi G.  
The value of c-kit mutational analysis in a cytokeratin positive gastrointestinal stromal

tumour.

J Clin Pathol 2005;58:991-993.

25) Ricci C, **Cavazza A**, Di Lernia V.

Iperplasia linfoide cutanea atipica di tipo misto B/T in una ragazza di 15 anni.

Eur J Pediatr Dermatol 2005;15:113-116.

26) Rossi G, **Cavazza A**, Marchioni A, Longo L, Migaldi M, Sartori G, Bigiani N, Schirosi L, Casali C, Morandi U, Facciolongo N, Maiorana A, Bavieri M, Fabbri LM, Brambilla E.

Role of chemotherapy and receptor tyrosine kinases KIT, PDGFR $\alpha$ , PDGFR $\beta$  and Met in large cell neuroendocrine carcinoma of the lung.

J Clin Oncol 2005;23:8774-8785.

27) Falco F, Bembi B, **Cavazza A**, Pittis MG, Zucchi L.

Pulmonary involvement in an adult female affected by type B Niemann-Pick disease.

Sarcoidosis Vasc Diffuse Lung Dis 2005;22:229-233.

28) Paci M, **Cavazza A**, Annessi V, Ferrari G, Carpi A, De Franco S, Sgarbi G.

A single lung metastases of endometrioid adenocarcinoma synchronous with a primitive bronchioloalveolar carcinoma in the same lobe.

J Thorac Oncol 2006;1:268-269.

29) Rossi G, **Cavazza A**.

CDX2 expression and lung cancer.

Appl Immunohistochem Mol Morphol 2006;14:249-250.

30) Rossi G, **Cavazza A**, Casali C, Cesinaro AM, Cinquantini F, Morandi U.

Tuberous sclerosis complex presenting as a pulmonary solitary nodule.

Histopathology 2006;48:764-776.

31) Rossi G, Schirosi L, Giovanardi F, Sartori G, Paci M, **Cavazza A**.

Pleural malignant solitary fibrous tumor with sarcomatous overgrowth showing PDGFR $\beta$  mutation.

Chest 2006;130:581-583.

32) Rossi G, **Cavazza A**, Turrini E, Costantini M, Casali C, Morandi U, Dallari R.

Exclusive intrapulmonary lepidic growth of a malignant pleural mesothelioma presenting with pneumothorax and involving the peritoneum.

Int J Surg Pathol 2006;14:234-237.

33) **Cavazza A**, Paci M, Rossi G.

Pulmonary hamartoma associated with typical carcinoid/tumorlet.

Virchows Arch 2006;449:392-393.

- 34) **Cavazza A**, Rossi G, Barbareschi M, Damiani S, Cancellieri A, Murer B.  
Diagnostic utility of macrophages in interstitial lung disease.  
*Pathologica* 2006;98:211-223.
- 35) Papi G, Briganti F, Artioli F, **Cavazza A**, Carapezzi C, Roggeri A, Baldoni C, Carani C, Chiarini V, Roti E.  
Sarcoidosis of the thyroid gland associated with hyperthyroidism: review of the literature and report of two peculiar cases.  
*J Endocrinol Invest* 2006;834-839.
- 36) Rossi G, Marchioni A, Sartori G, Longo L, Piccinini S, **Cavazza A**.  
Histotype in non-small cell lung cancer therapy and staging: the emerging role of an old and underrated factor.  
*Current Respiratory Medicine Reviews* 2007;3:69-77.
- 37) Rossi G, Marchioni A, Romagnani E, Bertolini F, Longo L, **Cavazza A**, Barbieri F.  
Primary lung cancer presenting with gastrointestinal tract involvement: clinicopathologic and immunohistochemical features in a series of 18 consecutive cases.  
*J Thorac Oncol* 2007;2:115-120.
- 38) Morandi L, Asioli S, **Cavazza A**, Pession A, Damiani S.  
Genetic relationship among atypical adenomatous hyperplasia, bronchioloalveolar carcinoma and adenocarcinoma of the lung.  
*Lung Cancer* 2007;56:35-42.
- 39) Rossi G, Sartori G, Murer B, Capitanio G, **Cavazza A**.  
Mucin-rich tumors of the lung.  
*Am J Clin Pathol* 2007;127:473-474.
- 40) Bajocchi G, Zamorani G, **Cavazza A**, Pipitone N, Versari A, Boiardi L, Salvarani C.  
Giant-cell arteritis of the female genital tract associated with occult temporal arteritis and FDG-PET evidence of large-vessel vasculitis.  
*Clin Exp Rheumatol* 2007;25:36-39.
- 41) Leonardo E, Volante M, Barbareschi M, **Cavazza A**, Dei Tos AP, Bussolati G, Papotti M.  
Cell membrane reactivity of MIB-1 antibody to KI67 in human tumors: fact or artifact?  
*Appl Immunohistochem Mol Morphol* 2007;15:220-223.
- 42) Cesinaro AM, **Froni M**, Sighinolfi P, Migaldi M, Trentini GP.  
Spitz nevus is a relatively frequent in adults. A clinico-pathologic study of 247 cases related to patient's age.  
*Am J Dermatopathol* 2005;27:469-475.

43) Oncocytic adenocarcinoma of the rectum arising on a villous adenoma with oncocytic features.

**Piana S, Asioli S, Foroni M.**

Virchows Arch 2006;448:228-231.

44) Bozzetti C, **Flora M, Bassano C**, Negri F, Martella E, Naldi N, Franciosi V, Cascinu S. HER-2/neu amplification by fluorescence in situ hybridization in cytologic samples from distant metastatic sites of breast carcinoma.

Cancer 2003;25:310-5.

45) **Flora M** et al.

Evaluation of HER-2/neu amplification and other biological markers as predictors of response to neoadjuvant anthracycline-based chemotherapy in primary breast cancer: the role of anthracycline dose intensity.

Am J Clin Oncol 2006;29:171-7.

46) Frasoldati A, **Flora M**, et al.

Computer-assisted cell morphometry and ploidy analysis in the assessment of thyroid follicular neoplasms.

Thyroid 2001;11:941-6.

47) **Piana S, Gelli MC**, Grenzi L, Ricci C, Gardini S.

Multifocal melanoma arising in nevus spilus.

Int J Dermatol 2006;45:1380-1381.

### **Altre informazioni**

- Gardini, Gelli, Cavazza: Membri del Comitato Scientifico del Corso Nazionale di Patologia Polmonare tenuto a Reggio Emilia nel 1997 (Relatori Prof. T.V. Colby e Prof. S.A. Yousem)
- Cavazza: Membro del Comitato Scientifico del Advanced Course in Diagnostic Lung Pathology at the Multiheaded Microscope tenuto a Trento nel 2002 (Relatore Prof. K.O. Lesile)
- Cavazza: Membro del Comitato Scientifico del Advanced Course in Diagnostic Lung Pathology at the Multiheaded Microscope tenuto a Trento nel 2003 (Relatore Prof. T.V. Colby)
- Cavazza: Membro del Comitato Scientifico del Advanced Course at the Multiheaded Microscope on Transbronchial Biopsies in Neoplastic and Interstitial Lung Diseases tenuto a Trento nel 2005 (relatore Prof. K.O. Lesile)
- Cavazza: Membro del Comitato Scientifico del Meeting of the Italian Group of Pleuro-Pulmonary Pathologists tenuto a Trento nel 2006 (relatore Prof. T.V. Colby).