

**UNIVERSITÀ DEGLI STUDI DI MILANO**

Procedura di selezione per la chiamata a professore di II fascia da ricoprire ai sensi dell'art. 18, comma 1, della Legge n. 240/2010 per il settore concorsuale 06/A4 (settore scientifico-disciplinare MED/08) presso il Dipartimento di Oncologia ed Emato-Oncologia (avviso bando pubblicato sulla G.U. n. 53 del 05/07/2019) - Codice concorso 4108

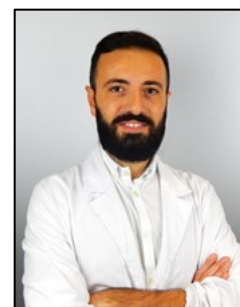
**NICOLA FUSCO  
CURRICULUM VITAE****INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)**

COGNOME	FUSCO
NOME	NICOLA
DATA DI NASCITA	23-08-1981

**INSERIRE IL PROPRIO CURRICULUM  
(non eccedente le 30 pagine)****FUSCO Nicola, MD**

Gender: **Male**  
Country: **Italy**  
Date of Birth: **23-Aug-1981**

E-mail for correspondence:  
**nicola.fusco@unimi.it**  
**nicola.fusco@policlinico.mi.it**

**Areas of Expertise**

Breast pathology, Immunopathology, Surgical pathology, Molecular pathology, Digital pathology, Translational research.

**Language Skills**

Italian (mother tongue), English (full proficiency)

**Education and academic titles**

2019: National Scientific Qualification as Associate Professor in Pathology (Abilitazione Scientifica Nazionale a Professore di Seconda Fascia) SSD 06/A4 (Italian Ministry of Education, Universities and Research)

2014: Board-certified Pathologist (University of Milan, Italy)

2008: Doctor of Medicine (Bachelor of Medicine, Bachelor of Surgery) Boarding position: OMCeONO 3917 (University of Eastern Piedmont, Novara, Italy)

**Present and previous employment**

**1/2017 – present:** Lecturer / Instructor (Pathology and Molecular Pathology), Medical School, International Medical School, and Dentistry, School of Pathology, University of Milan, Italy.

**1/2017 – present:** Attending Pathologist, Division of Pathology, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.

**11/2016 – present:** Pathology Research Associate (RTD-A, SSD MED/08), University of Milan, Department of Biomedical, Surgical and Dental Sciences, Milan, Italy.

**1/2016 – 12/2016:** Post-Doc Fellow, University of Milan, Department of Pathophysiology and Organ Transplantation, Milan, Italy.

**6/2015 – 12/2016:** Research Fellow, Division of Pathology, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.

**5/2010 – 5/2015:** Resident in Pathology / Pathology Fellow

- University of Milan, School of Pathology, via Antonio di Rudini 8, 20142 Milan, Italy.
- Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy.
- IRCSS Istituto Clinico Humanitas, Rozzano (MI), Italy.
- Luigi Sacco Hospital, Milan, Italy.
- San Paolo Hospital, Milan, Italy.

**11/2013 - 10/2014:** Visiting Investigator, Memorial Sloan Kettering Cancer Center, New York, NY, USA.

**7/2009 - 5/2010:** Research Fellow, San Paolo Hospital, Milan, Italy.

**6/2008 - 6/2009:** Post-graduate training in Pathology (Tenure), Novara University Hospital, Novara, Italy.

## Teaching activity (SSD MED/08)

Professor of Pathology (Lecturer) at University of Milan

Department of Biomedical, Surgical, and Dental Sciences (November 2017 – now)

**School of Medicine (POLO CENTRALE) and International Medical School (POLO IMS), University of Milan, Italy (November 2017 – now)**

- Lecturer (surgical pathology, molecular pathology, immunopathology) – POLO CENTRALE / IMS
  - Practical course in surgical pathology, DIDATTICA NON FORMALE (D51-31)
    - AA 2018/2019 **64 HOURS**
    - AA 2017/2018 **48 HOURS**
    - AA 2016/2017 **25 HOURS**
  - SYSTEM DISEASES 3 (D56-107), MODULO PATHOLOGY
    - AA 2018/2019 **4 HOURS**
  - SYSTEM DISEASES 2 (D56-106), MODULO PATHOLOGY
    - AA 2018/2019 **2 HOURS**
    - AA 2017/2018 **2 HOURS**
  - NEUROBIOLOGY, HUMAN BEHAVIOUR AND CLINICAL NEUROSCIENCE (D56-114), MODULO PATHOLOGY (DOCENTE RESPONSABILE DEL MODULO)
    - AA 2018/2019 **8 HOURS**
  - CLINICAL ONCOLOGY AND RADIOTHERAPY (D56-111), MODULO PATHOLOGY (DOCENTE RESPONSABILE DEL MODULO)
    - AA 2018/2019 **12 HOURS**
  - CLINICAL AND SURGICAL PATHOLOGY (D56-115), MODULO UNICO
    - AA 2018/2019 **9 HOURS**
    - AA 2017/2018 **6 HOURS**
  - SEMEIOTICA E PATOLOGIA DEGLI APPARATI I (D51-65), MODULO ANATOMIA PATOLOGICA (DOCENTE RESPONSABILE DEL MODULO PER L'EDIZIONE SAN GIUSEPPE)
    - AA 2017/2018 **12 HOURS**
- Coordinator of the internship "*Clinical and Experimental Pathology*"
- Coordinator of the Internship "*Clinical Management of Breast Cancer*"
- Tutor
- Thesis supervisor
  - "Capturing the role of the immune regulatory system in pregnancy-associated breast cancers" by Roberto Croci, 2019 (**Correlatore**)
  - "Assessing the risk of breast cancer related lymphedema: a multidisciplinary approach for a paradigm-shift in the clinical management" by Anna Michelotti, 2018 (**Relatore**)
  - "Caratteristiche istologiche della biopsia osteomidollare nei pazienti con sindromi mielodisplastiche in trattamento con azacitidina" by Marcon Livia Maria Rita, 2018 (**Correlatore**)
  - "Caratteristiche istologiche della biopsia osteomidollare nei pazienti con sindromi mielodisplastiche in trattamento con eritropoietina" by Marco Barella, 2018 (**Correlatore**)
  - "BRAF<sup>V600E</sup> e ameloblastoma: risultati di uno studio retrospettivo osservazionale multicentrico" by Monica Slongo, 2018 (**Correlatore**)
  - "Molecular testing for mismatch repair and PTEN status in breast cancer: clinical implications and perspectives in immunotherapy" by Chiara Corti, 2018 (**Correlatore**)
  - "La realtà aumentata nei tumori del cavo orale: integrare la tecnologia "Narrow Band Imaging" con la patologia molecolare. Uno studio pilota per una chirurgia radicale ultra-personalizzata" by Camilla Mazzuccato, 2017 (**Correlatore**)
  - "PTEN immunohistochemistry is a predictor of mismatch repair status in breast cancer" by Gianluca Lopez, 2017 (**Correlatore**)

**PhD Program in Translational Medicine, University of Milan, Italy (September 2018 – now)**

- Tutor for the line of research on DNA repair alterations in breast cancer
- Coordinator of the course: MOLECULAR AND IMMUNOPATHOLOGY (R46-9)

#### **School of Pathology, University of Milan, Italy (November 2017 – now)**

- JOURNAL CLUB DI ANATOMIA PATOLOGICA IN LINGUA INGLESE (QUARTO ANNO) (56S-2), MODULO UNICO (DOCENTE RESPONSABILE DEL MODULO)
  - AA 2017/2018 **8 HOURS**
- JOURNAL CLUB DI ANATOMIA PATOLOGICA IN LINGUA INGLESE (PRIMO ANNO) (56S-17), MODULO UNICO (DOCENTE RESPONSABILE DEL MODULO)
  - AA 2017/2018 **8 HOURS**
  - AA 2016/2017 **8 HOURS**
  - AA 2015/2016 **8 HOURS**
- JOURNAL CLUB DI ANATOMIA PATOLOGICA IN LINGUA INGLESE (SECONDO ANNO) (56S-12), MODULO UNICO (DOCENTE RESPONSABILE DEL MODULO)
  - AA 2017/2018 **8 HOURS**
  - AA 2016/2017 **8 HOURS**
  - AA 2015/2016 **8 HOURS**
- JOURNAL CLUB DI ANATOMIA PATOLOGICA IN LINGUA INGLESE (TERZO ANNO) (56S-6), MODULO UNICO (DOCENTE RESPONSABILE DEL MODULO)
  - AA 2017/2018 **8 HOURS**
  - AA 2016/2017 **8 HOURS**
- ANATOMIA PATOLOGICA 1 (56S-19), MODULO LEZIONI PRATICHE (DOCENTE RESPONSABILE DEL MODULO)
  - AA 2016/2017 **15 HOURS**
  - AA 2015/2016 **15 HOURS**
- INGLESE 3 (02S-6), MODULO UNICO (DOCENTE RESPONSABILE DEL MODULO)
  - AA 2016/2017 **15 HOURS**
  - AA 2015/2016 **15 HOURS**
- INGLESE 2 (02S-15), MODULO UNICO (DOCENTE RESPONSABILE DEL MODULO)
  - AA 2015/2016 **15 HOURS**

#### **School of Dentistry, University of Milan, Italy (November 2017 – now)**

- ANATOMIA PATOLOGICA (D54-23), MODULO UNICO
  - AA 2018/2019 **10 HOURS**
  - AA 2017/2018 **10 HOURS**

#### **School of Dental Hygienist, University of Milan, Italy (November 2017 – September 2018)**

- SCIENZE MEDICO-CHIRURGICHE (D79-14), MODULO ANATOMIA PATOLOGICA (DOCENTE RESPONSABILE DEL MODULO)
  - AA 2017/2018 **10 HOURS**

#### **Brevetti**

- PTEN IHC come predittore dello stato del mismatch repair nel tumore al seno #IT102018000010730-DEPOSITATO

#### **Journal Editor**

- Cancer Cell International, Associate Editor (3.960)
- Frontiers in Oncology, Special Issue "Quality of Life in Breast Cancer Patients and Survivors" (4.416)
- BioMed Research International, Special Issue "Cancer Immunopathology: Novel Biomarkers for Clinical Use" (2.583)

#### **Journal Referee**

- International Journal of Cancer (7.360)
- Journal of Clinical Medicine (5.583)
- Oncotarget (5.168)
- Cellular Oncology (4.761)
- BMC Cancer (3.288)
- OncoTargets and Therapy (3.056)
- Current Cancer Drug Targets (2.992)
- Cancer Biomarkers (2.392)
- Medical Science Monitor (1.894)
- World Journal of Surgical Oncology (1.792)
- Pathobiology (1.592)
- Medicina (1.467)
- International Journal of Surgical Pathology (1.188)

#### **Awards and achievements**

- Best Young Speaker Award – Italian Society of Pathology (SIAPeC) Annual Meeting, 2015

## Scientific organizations

- Italian Society of Pathology (SIAPeC) - Member
- Italian Group for the Study of Breast Pathology (GIPaM/SIAPEC) – Member, Social media manager
- United States and Canadian Academy of Pathology (USCAP) - Member
- International Academy of Pathology - Member
- European Society of Breast Cancer Specialists (EUSOMA) - Member
- American Society of Clinical Oncology (ASCO) – Member

## Foundations

- OXIAMO Onlus – Member of the Scientific Committee since December 2018

## Major Invited Talks

### 2019

- **Tecnologia applicata alla diagnosi: la profilazione biomolecolare. E-Oncology: l'evoluzione digitale.** Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Regione Lombardia e Fondazione OXIAMO Onlus. 21 June 2019, Milan, Italy.
- **Determination of mismatch repair status in breast cancer and its clinical significance.** Institut Curie. 28 February 2019, Paris, France.

### 2018

- **Aspetti applicativi immunoistochimici in uno studio osservazionale sulla riproducibilità interpretativa: esperienze con piattaforma open.** PD-L1 nel carcinoma polmonare: un percorso guidato test in laboratorio. Università degli Studi di Milano Bicocca. 22 June 2018, Monza, Italy.
- **Mesotelioma Pleurico: aspetti biologico-classificativi e nuove prospettive per l'immunoterapia.** Nemico minerale asbesto: quando la pleura si ammala. Regione Lombardia e Fondazione OXIAMO Onlus. 21 February 2018, Milan, Italy.

### 2017

- **The clinical significance of DNA repair defects in sporadic and familial breast cancers.** Annual congress of the Italian Society of Pathology (SIAPeC), Italian Group of Breast Pathologists session, 13 October 2017, Naples, Italy
- **Metadata and research data (chair).** Open Research Data Management: policies and tools. Agency for the Promotion of European Research, 25 May 2017, Milan, Italy
- **The translational impact of molecular pathology for healthcare providers: what can we learn from breast cancer genomics?** Center for Complexity and Biosystems – University of Milan, 24 May 2017, Milan, Italy
- **Whole-genome single-cell copy number profiling from bioptic samples of advanced NSCLCs.** Canned Air event, OXIAMO Onlus, 11 May 2017, Milan, Italy

### 2016

- **Characterization of non-obligate precursors of invasive breast cancer.** Annual congress of the Italian Society of Pathology (SIAPeC), Italian Group of Breast Pathologists session, 24 November 2016, Genoa, Italy

### 2010

- **Beyond the microscope: a digital image analysis experience.** Digital virtual microscopy and analysis for pathology and pharma applications. Workshop Hamamatsu, 2010 October, Milan, Italy

## Direzione o partecipazione alle attività di gruppi di ricerca caratterizzati da collaborazioni a livello nazionale o internazionale

- Collaborazione con il gruppo di ricerca del Dr. Jorge Reis-Filho, MD, PhD, FRCPath (Division of Experimental Pathology, Memorial Sloan Kettering Cancer Center, New York, NY). Area tematica: patologia molecolare del carcinoma della mammella. Periodo: dal 1/11/2013 a oggi. Tale collaborazione scientifica ha prodotto:
  - 11 pubblicazioni scientifiche (De Mattos-Arruda et al. Oncotarget 2018; Kim et al. J Pathol 2018; Fusco et al. Mod Pathol 2016; Piscuoglio et al. Clin Cancer Res 2016; Piscuoglio et al. Histopathology 2016; Guerini-Rocco et al. J Pathol 2016; Fusco et al. Histopathology 2016; Piscuoglio et al. Histopathology 2015; Guerini-Rocco et al. J Pathol 2015; Fusco et al. Int J Surg Pathol 2015; Weinreb et al. Nat Genet 2015)
  - 4 comunicazioni orali a congressi internazionali (Kim et al. San Antonio Breast Cancer Symposium 2017; Geyer et al. USCAP Annual Meeting 2017; Fusco et al. USCAP Annual Meeting 2016; Guerini-Rocco et al. USCAP Annual Meeting 2016)
  - 9 presentazioni di poster a congressi internazionali (Da Cruz Paula et al. San Antonio Breast Cancer Symposium 2018; Fusco et al. USCAP Annual Meeting 2015; Fusco et al. USCAP Annual Meeting 2015; Guerini-Rocco et al. USCAP Annual Meeting 2015; Guerini-Rocco et al. USCAP Annual Meeting 2015; Weisman et al. USCAP Annual Meeting 2015; Piscuoglio et al. USCAP Annual Meeting 2015; Piscuoglio et al. USCAP Annual Meeting 2015; Piscuoglio et al. San Antonio Breast Cancer Symposium 2015)
- Collaborazione con il gruppo di ricerca del Dr. Massimo Barberis (Direttore della Unità Diagnostica Istopatologica e Molecolare, Istituto Europeo di Oncologia-IEO, Milano). Periodo dal 1/2/2016 a oggi. Area tematica: biomarcatori tissutali e circolanti in patologia oncologica del distretto toracico. Tale collaborazione scientifica ha prodotto:
  - 3 pubblicazioni scientifiche (Fusco et al. J Thorac Dis 2017; Fusco et al. Histopathology 2017; Fumagalli et al. Ecancermedicalscience 2017)

- 1 presentazione di poster a congressi internazionali (Fusco et al. USCAP Annual Meeting, Seattle, WA, USA, 2016)
- Direzione di un gruppo di ricerca multicentrico e multidisciplinare finalizzato a scoprire biomarcatori tumore-specifici nel linfedema correlato a carcinoma della mammella. Periodo: dal 1/11/2016 a oggi Gruppi di ricerca collaboranti: Prof. Carlo Cisari (Direttore della SC di Medicina Fisica e Riabilitativa e dell'Unità Spinale dell'AOU di Novara) e Prof. Stefania Maggi (Epidemiology of aging and biostatistics group, Consiglio Nazionale delle Ricerche - CNR, Padova). Tale collaborazione scientifica ha prodotto le seguenti pubblicazioni scientifiche:
  - Tackling the diversity of breast cancer related lymphedema: perspectives on diagnosis, risk assessment, and clinical management. Michelotti A, Invernizzi M, Lopez G, Lorenzini D, Nesa F, De Sire A, Fusco N# - Breast. 2019 Apr;44:15-23
  - Lymphovascular invasion and extranodal tumour extension are risk indicators of breast cancer-related lymphedema: an observational retrospective study with long-term follow-up. Invernizzi M, Corti C, Lopez G, Michelotti A, Despini L, Gambini D, Lorenzini D, Guerini-Rocco E, Maggi S, Noale M, Fusco N# - BMC Cancer. 2018 Sep 18(1):935.
  - Breast Cancer Systemic Treatments and Upper Limb Lymphedema: A Risk-Assessment Platform Encompassing Tumor-Specific Pathological Features Reveals the Potential Role of Trastuzumab. Invernizzi M, Michelotti A, Noale M, Lopez G, Runza L, Giroda M, Despini L, Blundo C, Maggi S, Gambini D, Fusco N. J Clin Med. 2019 Jan 24;
  - 4 presentazioni di poster a congressi internazionali (Fusco et al. San Antonio Breast Cancer Symposium 2018; Invernizzi et al. World Congress of the International Society of Physical and Rehabilitation Medicine, Paris, France, 2018; Fusco et al. ASCO Annual Meeting, Chicago, USA, 2018; Invernizzi et al. International Society of Physical & Rehabilitation Medicine (ISPRM) World Congress, Buenos Aires, Argentina, 2017)
  - 1 tesi di laurea nel Corso di Laurea in Medicina e Chirurgia dell'Università degli Studi di Milano (Michelotti A, "Assessing the risk of breast cancer related lymphedema: a multidisciplinary approach for a paradigm-shift in the clinical management" - Relatore: Fusco N, AA 2017/2018)
- Collaborazione con il gruppo di ricerca del Prof. Fabio Pagni (Università degli Studi di Milano Bicocca). Periodo: dal 1/4/2017 a oggi. Aree tematiche: biomarcatori prognostici e predittivi in patologia toracica ed endocrina; immunopatologia. Tale collaborazione scientifica ha prodotto 3 pubblicazioni scientifiche (Vigliar et al. Biomed Res Int 2019; Del Gobbo et al. Cell Oncol 2018; Smith et al. J Proteomics 2018; Fusco et al. Histopathology 2017)

## **Responsabilità di studi e ricerche scientifiche affidati da qualificate istituzioni pubbliche o private**

- Per conto del Gruppo Italiano di Studio della Patologia Mammaria (GIPaM-SIAPeC, <http://siapec-gipam.blogspot.com>) (Coordinatori: Prof. Patrizia Querzoli e Dott. Antonio Rizzo) Coordinamento del gruppo di lavoro finalizzato alla redazione delle raccomandazioni GIPaM-SIAPeC 2019 per la gestione e refertazione anatomopatologica delle neoplasie mammarie prima e dopo terapia neoadiuvante. Dal 26-09-2018 a oggi.
- Membro del Comitato Scientifico della Fondazione OXIAMO Onlus (<https://www.oxiamo.org/>) che ha lo scopo di promuovere la ricerca scientifica nelle malattie del distretto toracico (vedi allegato). In tale ambito, co-PI della linea di ricerca sulla patologia molecolare del carcinoma polmonare. Finanziamenti dal 20-12-2018 a oggi: 24.000 euro.

## **Specifiche esperienze professionali caratterizzate da attività di ricerca attinenti al settore concorsuale MED/08**

- Research Fellow presso la Division of Experimental Pathology, Memorial Sloan Kettering Cancer Center, New York, NY (Responsabili Dr. Jorge Reis-Filho e Dr. Britta Weigelt) e la Division Pathology (Responsabile breast: Dr. Edi Brogi; responsabile GYN: Dr. Robert Soslow). L'attività di ricerca sviluppata in questo periodo si è principalmente orientata verso la caratterizzazione clinico-patologica e molecolare delle neoplasie mammarie e ginecologiche. Periodo: dal 01-11-2013 al 01-11-2014
- Borsista di Ricerca presso la U.O.C. Anatomia Patologica della Fondazione IRCCS Ca' Granda - Ospedale Maggiore Policlinico di Milano. L'attività di ricerca sviluppata in questo periodo, finanziata in parte dai fondi ottenuti con la ricerca corrente, si è principalmente orientata verso la caratterizzazione clinico-patologica e molecolare delle neoplasie mammarie. Periodo: dal 01-06-2015 al 31-05-2016
- Assegnista di Ricerca presso il Dipartimento di Fisiopatologia Medico-Chirurgica e dei Trapianti dell'Università degli Studi di Milano. L'attività di ricerca sviluppata in questo periodo si è principalmente orientata verso la caratterizzazione clinico-patologica e molecolare delle neoplasie mammarie e del distretto toracico. Periodo: dal 01-01-2016 al 31-10-2016
- Ricercatore Universitario (RTD-A) convenzionato con la U.O.C. Anatomia Patologica della Fondazione IRCCS Ca' Granda - Ospedale Maggiore Policlinico di Milano. L'attività di ricerca sviluppata in questo periodo (dal 1-11-2016 a oggi), finanziata in parte dai fondi ottenuti con la ricerca corrente, si è principalmente orientata verso l'immunopatologia e la caratterizzazione clinico-patologica e molecolare delle neoplasie mammarie, del distretto toracico e del distretto testa-collo. Durante questo periodo sono state sviluppate le seguenti linee di ricerca:
  - Studio del valore prognostico e predittivo del danno ai meccanismi di riparazione del DNA nei carcinomi della mammella (P.I. Prof. BOSARI): in questo progetto, attraverso la costruzione di tissue microarrays si è andata a valutare l'espressione di specifiche proteine legate ai sistemi di riparazione del DNA, con particolare riferimento al mismatch repair system, il loro valore prognostico e predittivo, l'importanza

clinica dell'eterogeneità intratumorale di espressione di tali proteine e l'identificazione di sottoclassi di pazienti clinicamente rilevanti. In tale contesto si è anche andato a studiare l'assetto molecolare di oltre 750 neoplasie primitive e delle loro eventuali metastasi mediante microdissezione, estrazione del DNA e sequenziamento NGS. Le single mutazioni, così come anche il carico mutazionale di ciascuna neoplasia è stato poi correlato con i dati clinico-patologici al fine di identificare nuovi biomarcatori surrogati di danno ai meccanismi di riparazione del DNA. Tale linea di ricerca ha portato alla deposizione di un brevetto (attualmente in fase di valutazione), alla recente pubblicazione scientifica Fusco et al JNCI-J Natl Cancer I Cancer Spectrum 2018 e alle seguenti presentazioni in congressi nazionali e internazionali: San Antonio Breast Cancer Symposium 2018 e 2016, SIAPeC 2017 e European Congress on Digital Pathology 2016.

- Studio di biomarcatori tumore-specifici di insorgenza e outcome per il linfedema correlato a carcinoma della mammella (P.I. Dr. FUSCO): in questo studio multicentrico e multidisciplinare che ha coinvolto trasversalmente unità di chirurgia senologica, oncologia, fisiatria e anatomia patologica, attraverso l'analisi dettagliata di oltre 300 pazienti con metastasi linfonodali da carcinoma mammario, si è valutata la probabilità di sviluppare linfedema a seguito di chirurgia e radioterapia integrando per la prima volta dati clinici e demografici con parametri patologici sia morfologici che molecolari. Tale linea di ricerca ha portato a due pubblicazioni scientifiche (Breast 2018 e BMC Cancer. 2018) e tre presentazioni a congressi internazionali (ASCO 2018, San Antonio Breast Cancer Symposium 2018, International Society of Physical and Rehabilitation Medicine 2018).
- Studio di nuovi biomarcatori prognostici nelle neoplasie polmonari (P.I. Prof. FERRERO): in questo ampio progetto di ricerca si è valutato il significato clinico dell'espressione tissutale di specifiche proteine al fine di identificare nuovi biomarcatori diagnostici e prognostici. Tale linea di ricerca ha visto collaborare il gruppo di lavoro con svariati centri nazionali e internazionali tra cui l'Istituto Europeo di Oncologia, Città della Salute e della Scienza di Torino, il Gruppo Multimedica, l'ASST San Gerardo di Monza e la Loyola University di Chicago) e ha portato alla pubblicazione di cinque lavori scientifici (Cell Oncol (Dordr) 2018, J Thorac Oncol 2018, J Thorac Dis 2017, Histopathology 2017, Ecancermedicalscience 2017).
- Studio delle lesioni preneoplastiche e dei precursori non obbligati di carcinoma squamocellulare del distretto testa-collo (P.I. Prof. GIANNI'). Tale linea di ricerca ha lo scopo di identificare biomarcatori precoci in grado di stratificare i pazienti affetti da oral potentially malignant disorders sulla base del rischio di sviluppare carcinoma squamocellulare del distretto testa-collo.

## Publications

Total Impact Factor 241.395; Average Impact Factor 4.642; H-index 10 (Scopus)

#corresponding author; \*equally contribution

### 1. Integrating augmented reality tools in breast cancer related lymphedema prognostication and diagnosis.

Invernizzi M, Runza L, De Sire A, Lippi L, Blundo C, Gambini D, Boldorini R, Ferrero S, Fusco N<sup>#</sup>  
**J Vis Exp.** 2019 June [ahead of print] **IF: 1.325**

### 2. A novel integrated platform for the identification of surgical margins in oral squamous cell carcinoma: results from a prospective single-Institution series.

Baj A, Fusco N<sup>\*</sup>, Bolzoni A, Carioli D, Mazzucato C, Faversani A, Bresciani L, Maggioni M, Capaccio P  
**BMC Cancer.** 2019 May 17;19(1):467. **IF: 3.288**

### 3. The conundrum of breast chondrolipoma: heterotopic, metaplastic, or neoplastic lesion?

Sabella G, Lopez G, Runza L, Rognoni E, Sfondrini MS, Fusco N<sup>#</sup>.  
**Breast J.** 2019 May [ahead of print]. **IF: 2.424**

### 4. Chondroid differentiation in thyroid nodular hyperplasia: an innocent bystander?

Pittaro A, Del Gobbo A, Iofrida E, Fusco N<sup>#</sup>  
**Int J Surg Pathol.** 2019 May;27(3):274. **IF: 1.188**

### 5. TdT expression in germ cell tumors: a possible immunohistochemical cross-reaction and diagnostic pitfall.

Jaconi M, Magni F, Raimondo F, Ponzoni M, Chinello C, Smith A, Piga I, Fusco N, Di Bella C, Pagni F.  
**J Clin Pathol.** 2019 Apr [ahead of print] **I.F. 2.894**

### 6. The reproducibility of the immunohistochemical PD-L1 testing in Non Small Cell Lung Cancer: a multicentric Italian experience

Vigliar E, Malapelle U, Bono F, Fusco N, Cortinovis DL, Valtorta E, Spyridon A, Bimbatti M, Zocchi M, Piva C, Gaudioso G, Iaccarino A, Morbini P, Pagni F.  
**Biomed Res Int** 2019 Apr 14;2019:6832909. **I.F. 2.583**

### 7. Diagnostic challenge of intrathoracic tissue misplacements: a thymic choristoma in a fetal lung.

Lopez G, Croci R, Rizzuti T, Ferrero S, Fusco N<sup>#</sup>  
**Thorax** 2019 Jun;74(6):624. **I.F. 9.655**

8. **Tackling the diversity of breast cancer related lymphedema: perspectives on diagnosis, risk assessment, and clinical management.**  
Michelotti A, Invernizzi M, Lopez G, Lorenzini D, Nesa F, De Sire A, [Fusco N<sup>#</sup>](#)  
**Breast** 2019 Apr 44:15-23. **I.F. 2.951**
9. **NF1 alterations are linked to increased HER2 expression in breast cancer - Letter.**  
Gambini D, Natacci F, Cesaretti C, [Fusco N<sup>#</sup>](#)  
**Cancer Prev Res.** 2019 Mar 12(3). **I.F. 4.021**
10. **Determination of mismatch repair status in human cancer and its clinical significance: does one size fit all?**  
Corti C, Sajjadi E, [Fusco N<sup>#</sup>](#)  
**Adv Anat Pathol** 2019 Mar [ahead of print] **I.F. 2.358**
11. **Impact of mutation density and heterogeneity of papillary thyroid cancer clinical features and remission probability.**  
Colombo C, Muzza M, Proverbio MC, Tosi D, Soranna D, Pesenti C, Rossi S, Cirello V, De Leo S, [Fusco N](#), Miozzo M, Bulfamante G, Vicentini L, Ferrero S, Zambon A, Tabano S, Fugazzola L.  
**Thyroid.** 2019 Feb 29(2) **I.F. 7.557**
12. **Molecular insights into the classification of Luminal breast cancers: the genomic heterogeneity of progesterone-negative tumors.**  
Lopez G, Costanza J, Colleoni M, Fontana L, Ferrero S, Miozzo M, [Fusco N<sup>#</sup>](#)  
**Int J Mol Sci.** 2019 Jan 25;20(3) **I.F. 3.687**
13. **Breast cancer systemic treatments and upper limb lymphedema: a risk-assessment platform encompassing tumor-specific pathological features reveals the potential role of trastuzumab.**  
Invernizzi M, Michelotti A, Noale M, Lopez G, Runza L, Giroda M, Despini L, Blundo C, Maggi S, Gambini D, [Fusco N<sup>#</sup>](#)  
**J Clin Med** 2019 Jan 8(2):138. **I.F. 5.583**
14. **The genetic landscape of human glioblastoma and matched primary cancer stem cells reveals intra-tumour similarity and inter-tumour heterogeneity.**  
Pesenti C, Navone SE, Guarnaccia L, Terrasi A, Costanza J, Silipigni R, Guarneri S, [Fusco N](#), Fontana L, Locatelli M, Rampini P, Campanella R, Tabano S, Miozzo M, Marfia G.  
**Stem Cells Int** 2019 Mar 7;2019:2617030 **I.F. 3.989**
15. **Molecular and immunohistochemical markers with prognostic and predictive significance in liver metastases from colorectal carcinoma.**  
Lopez G, Boggio F, Ferrero S, [Fusco N<sup>#</sup>](#), Del Gobbo A.  
**Int J Mol Sci.** 2018 Oct 3;19(10) **I.F. 3.687**
16. **Mismatch repair protein loss is a prognostic and predictive biomarker in breast cancers regardless of microsatellite instability.**  
[Fusco N<sup>#</sup>](#), Lopez G, Corti C, Pesenti C, Colapietro P, Ercoli G, Gaudioso G, Favarsani A, Gambini D, Michelotti A, Despini L, Blundo C, Vaira V, Miozzo M, Ferrero S, Bosari S.  
**JNCI-J Natl Cancer I Cancer Spectrum.** 2018 Nov;2(4):pky056.
17. **Lymphovascular invasion and extranodal tumour extension are risk indicators of breast cancer-related lymphedema: an observational retrospective study with long-term follow-up.**  
Invernizzi M, Corti C, Lopez G, Michelotti A, Despini L, Gambini D, Lorenzini D, Guerini-Rocco E, Maggi S, Noale M, [Fusco N<sup>#</sup>](#)  
**BMC Cancer.** 2018 Sep 18(1):935. **IF: 3.288**
18. **CXCL12 expression is a bona fide predictor of recurrence in lung neuroendocrine tumours. A multicentric study with emphasis on atypical carcinoids.**  
Del Gobbo A, [Fusco N](#), Barella M, Ercoli G, Sciarra A, Palleschi A, Pagni F, Marchio C, Papotti M, Ferrero S.  
**Cell Oncol (Dordr).** 2018 2018 Dec;41(6):687-691. **IF: 4.761**
19. **Pathologic grading of malignant pleural mesothelioma: An evidence-based proposal.**  
Pelosi G, Papotti M, Righi L, Rossi G, Ferrero S, Bosari S, Calabrese F, Kern I, Maisonneuve P, Sonzogni A, Albini A, Harari S, Barbieri F, Capelletto E, Catino AM, Cavone D, De Palma A, [Fusco N](#), Lunardi F, Maiorano E, Marzullo A, Novello S, Papanikolaou N, Pasello G, Pennella A, Pezzuto F, Punzi A, Prisciandaro E, Rea F, Rosso L, Scattone A, Serio G.  
**J Thoracic Oncol.** 2018 Nov;13(11):1750-1761. **IF: 10.331**
20. **Genetic heterogeneity and actionable mutations in HER2-positive primary breast cancers and their brain metastases.**  
De Mattos-Arruda L, Ng CKY, Piscuoglio S, Gonzalez-Cao M, Lim R, De Filippo M, [Fusco N](#), Schultheis AM, Ortiz C, Viteri S, Arias A, Macedo GS, Oliveira M, Gomez P, Teixidó C, Nuciforo P, Peg V, Saura C, Cajal SR, Casas FT, Weigelt B, Cortes J, Seoane J, Reis-Filho JS.

**Oncotarget.** 2018 Apr;9(29): 20617-20630. **IF: 5.168**

**21. Molecular signatures of medullary thyroid carcinoma by matrix-assisted laser desorption/ionisation mass spectrometry imaging.**

Smith A, Galli M, Piga I, Denti V, Stella M, Chinello C, Fusco N, Leni D, Manzoni M, Roversi G, Garancini M, Pincelli AI, Cimino V, Capitoli G, Magni F, Pagni F.  
**J Proteomics.** 2018 Mar S1874-3919(18)30122-2. **IF: 3.867**

**22. MYBL1 rearrangements and MYB amplification in breast adenoid cystic carcinomas lacking the MYB-NFIB fusion gene.**

Kim J, Geyer FC, Martelotto LG, Ng CKY, Lim RS, Selenica P, Li A, Pareja F, Fusco N, Edelweiss M, Kumar R, Gualarte-Merida R, Forbes AN, Khurana E, Mariani O, Badve S, Vincent-Salomon A, Norton L, Reis-Filho JS, Weigelt B.  
**J Pathol.** 2018 Feb;244(2):143-150. **IF: 6.894**

**23. Building up a high-throughput screening platform to assess the heterogeneity of HER2 gene amplification in breast cancers.**

Ercoli G, Lopez G, Ciapponi C, Corti C, Despini L, Gambini D, Runza L, Blundo C, Sciarra A, Fusco N.  
**J Vis Exp.** 2017 Dec 5;(130). **IF: 1.325**

**24. Looking for sputum biomarkers in lung cancer secondary prevention: where are we now?**

Fusco N, Fumagalli C, Guerini-Rocco E.  
**J Thorac Dis.** 2017 Nov;9(11):4277-4279. **IF: 2.365**

**25. Columnar cell lesion and apocrine hyperplasia of the breast: is there a common origin? The role of prolactin-induced protein.**

Sciarra A, Lopez G, Corti C, Runza L, Ercoli G, Bonometti A, Despini L, Blundo C, Gambini D, Fusco N.  
**Appl Immunohistochem Mol Morphol.** 2017 Oct [ahead of print]. **IF: 2.042**

**26. Cofilin is a cAMP effector in mediating actin cytoskeleton reorganization and steroidogenesis in mouse and human adrenocortical tumor cells.**

Peverelli E, Catalano R, Giardino E, Treppiedi D, Morelli C, Ronchi CL, Vaczlavik A, Fusco N, Ferrero S, Bertherat J, Beuschlein F, Chiodini I, Arosio M, Spada A, Mantovani G.  
**Cancer Letters.** 2017 Oct 10;406:54-63. **IF: 6.375**

**27. Recurrent NAB2-STAT6 gene fusions and estrogen receptor alpha expression in pulmonary adenofibromas.**

Fusco N, Guerini-Rocco E, Augello C, Terrasi A, Ercoli G, Fumagalli C, Vacirca D, Braidotti P, Parafioriti A, Jaconi M, Runza L, Ananthanarayanan V, Pagni F, Bosari S, Barberis M, Ferrero S  
**Histopathology.** 2017 May;70(6):1000-1008. **IF: 3.523**

**28. Clonal reticulohistiocytosis of the skin and bone marrow associated with systemic mastocytosis and acute myeloid leukaemia.**

Fusco N, Bonometti A, Augello C, Fabris S, Boiocchi L, Fiori S, Morotti D, Fracchiolla N, Berti E, Gianelli U  
**Histopathology.** 2017 May;70(6):906-917. **IF: 3.523**

**29. Circulating and tissue biomarkers in early-stage non-small cell lung cancer.**

Fumagalli C, Bianchi F, Rafaniello P, Vacirca D, Bertalot G, Rampinelli C, Lazzeroni M, Bonanni B, Veronesi G, Fusco N, Barberis M, Guerini-Rocco E  
**E cancermed science.** 2017 Jan 31;11:717. **IF: 1.120**

**30. Hibernation in unusual places: a pure typical hibernoma of the breast.**

Runza L, Blundo C, Guerini-Rocco E, Forno I, Fusco N.  
**Breast J.** 2017 Jan;23(1):104-105. **IF: 2.424**

**31. Autoimmune hepatitis: an uncommon presentation of thymoma.**

Mendogni P, Rosso L, Tosi D, Palleschi A, Righi I, Minonzio F, Fusco N, Nosotti M.  
**Tumori.** 2016 Nov 11;102(Suppl. 2). **IF: 1.071**

**32. Genetic events in the progression of adenoid cystic carcinoma of the breast to high-grade triple-negative breast cancer.**

Fusco N, Geyer FC, De Filippo MR, Martelotto LG, Ng CK, Piscuoglio S, Guerini-Rocco E, Schultheis AM, Fuhrmann L, Wang L, Jungbluth AA, Burke KA, Lim RS, Vincent-Salomon A, Bamba M, Moritani S, Badve SS, Ichihara S, Ellis IO, Reis-Filho JS, Weigelt B.  
**Mod Pathol.** 2016 Nov;29(11):1292-1305. **IF: 5.485**

**33. Therapeutic potential of immunoproteasome inhibition in Duchenne muscular dystrophy.**

Farini A, Sitzia C, Cassani B, Cassinelli L, Rigoni R, Colleoni F, Fusco N, Gatti S, Bella P, Villa C, Napolitano F, Maiavacca R, Bosari S, Villa A, Torrente Y.



Mol Ther. 2016 Nov;24(11):1898-1912. IF: 6.938

**34. HER2 aberrations and heterogeneity in cancers of the digestive system: implications for pathologists and gastroenterologists.**

Fusco N, Bosari S.

World J Gastroenterol. 2016 Sep 21;22(35):7926-37. IF: 2.787

**35. The genomic landscape of male breast cancer.**

Piscuoglio S, Ng CKY, Murray MP, Guerini-Rocco E, Martelotto LG, Geyer FC, Bidard FC, Berman S, Fusco N, Sakr RA, Eberle C, De Mattos-Arruda L, Macedo GS, Akram M, Baslan T, Hicks J, King TA, Brogi E, Norton L, Weigelt B, Hudis CA, Reis-Filho JS.

Clin Cancer Res. 2016 Aug 15;22(16):4045-56. IF: 8.738

**36. Lack of PRKD2 and PRKD3 kinase domain somatic mutations in PRKD1 wild-type classic polymorphous low-grade adenocarcinomas of the salivary gland.**

Piscuoglio S, Fusco N, Ng CK, Martelotto LG, da Cruz Paula A, Katabi N, Rubin BP, Skálová A, Weinreb I, Weigelt B, Reis-Filho JS.

Histopathology. 2016 Jun;68(7):1055-62. IF: 3.523

**37. Rediscovering secondary tumors of the prostate in the molecular era.**

Fusco N, Sciarra A, Guerini-Rocco E, Marchiò C, Vignani F, Colombo P, Ferrero S.

Adv Anat Pathol. 2016 May;23(3):170-9. IF: 2.919

**38. Approaching the histodynamics of celiac disease in modern times: the need of going beyond the dogmas.**

Fusco N, Runza L, Elli L, Ferrero S.

Dig Liver Dis. 2016 Apr;48(4):449-50. IF: 2.719

**39. Microglandular adenosis associated with triple-negative breast cancer is a neoplastic lesion of triple-negative phenotype harbouring TP53 somatic mutations.**

Guerini-Rocco E, Piscuoglio S, Ng CK, Geyer FC, De Filippo MR, Eberle CA, Akram M, Fusco N, Ichihara S, Sakr RA, Yatabe Y, Vincent-Salomon A, Rakha EA, Ellis IO, Wen YH, Weigelt B, Schnitt SJ, Reis-Filho JS.

J Pathol. 2016 Apr;238(5):677-88. IF: 6.894

**40. Resolving quandaries: basaloid adenoid cystic carcinoma or breast cylindroma? The role of massively parallel sequencing.**

Fusco N, Colombo PE, Martelotto LG, De Filippo MR, Piscuoglio S, Ng CK, Lim RS, Jacot W, Vincent-Salomon A, Reis-Filho JS, Weigelt B.

Histopathology. 2016 Jan;68(2):262-271. IF: 3.523

**41. "Giants in a microcosm": multinucleated giant cells populating an invasive micropapillary carcinoma of the breast.**

Marchiò C, Pietribiasi F, Castiglione R, Fusco N, Sapino A.

Int J Surg Pathol. 2015 Dec;23(8):654-5 IF: 1.188

**42. The contrasting role of p16Ink4A patterns of expression in neuroendocrine and non-neuroendocrine lung tumors: a comprehensive analysis with clinicopathologic and molecular correlations.**

Fusco N, Guerini-Rocco E, Del Gobbo A, Franco R, Zito-Marino F, Vaira V, Bulfamante G, Ercoli G, Nosotti M, Paleschi A, Bosari S, Ferrero S.

PLoS One. 2015 Dec 16;10(12):e0144923. IF: 3.057

**43. MED12 somatic mutations in fibroadenomas and phyllodes tumours of the breast.**

Piscuoglio S, Murray M, Fusco N, Marchiò C, Loo FL, Martelotto LG, Schultheis AM, Akram M, Weigelt B, Brogi E, Reis-Filho JS.

Histopathology. 2015 Nov;67(5):719-29. IF: 3.425

**44. Role of multidisciplinary approach in a case of Langerhans cell histiocytosis with initial periodontal manifestations.**

Cisternino A, Asa'ad F, Fusco N, Ferrero S, Rasperini G.

Int J Clin Exp Pathol. 2015 Oct 1;8(10):13539-45. IF: 1.581

**45. The repertoire of somatic genetic alterations of acinic cell carcinomas of the breast: an exploratory, hypothesis-generating study.**

Guerini-Rocco E, Hodi Z, Piscuoglio S, Ng CK, Rakha EA, Schultheis AM, Marchiò C, da Cruz Paula A, De Filippo MR, Martelotto LG, De Mattos-Arruda L, Edelweiss M, Jungbluth AA, Fusco N, Norton L, Weigelt B, Ellis IO, Reis-Filho JS.

J Pathol. 2015 Oct;237(2):166-78 IF: 6.894

**46. Basal cell carcinoma and seborrheic keratosis: when opposites attract.**

Fusco N<sup>#</sup>, Lopez G, Gianelli U.

Int J Surg Pathol. 2015 Sep;23(6):464. IF: 1.188

**47. The birth of an adenoid cystic carcinoma.**

Fusco N, Guerini-Rocco E, Schultheis AM, Badve SS, Reis-Filho JS, Weigelt B.

Int J Surg Pathol. 2015 Feb;23(1):26-7. IF: 1.188

**48. Hotspot activating PRKD1 somatic mutations in polymorphous low-grade adenocarcinomas of the salivary glands.**

Weinreb I, Piscuoglio S, Martelotto L, Waggott D, Ng C, Perez-Ordóñez B, Alfaro J, Kislinger T, Viale A, Fusco N, Da Cruz Paula A, Lim R, Thompson L, Chiosea SI, Seethala RS, Skalova A, Stelow EB, Fonseca I, Assaad A, How C, Liu FF, Wen YH, Katabi N, Buchner N, Mullen L, McPherson JD, Norton L, Rubin BP, Weigelt B, Clarke BA, Boutros P, Reis-Filho JS.

Nat Genet. 2014 Nov;46(11):1166-9. IF: 31.616

**49. Acitretin-induced acral hemorrhagic lesions in Darier-White disease.**

Zavattaro E, Celasco M, Delrosso G, Ferri S, Bornacina C, Valente G, Veronese F, Fusco N, Gariglio M, Colombo E.

Cutis. 2014 Dec;94(6):E1-5. IF: 0.927

**50. Expression and clinical significance of the autophagy proteins BECLIN 1 and LC3 in ovarian cancer.**

Valente G, Morani F, Nicotra G, Fusco N, Peracchio C, Alabiso O, Arisio R, Katsaros D, Benedetto C, Isidoro C.

Biomed Res Int. 2014;462658. IF: 2.134

**51. Juxtaglomerular cell tumor: multicentric synchronous disease associated with paraneoplastic syndrome.**

Cucchiari D, Bertuzzi A, Colombo P, De Sanctis R, Faucher E, Fusco N, Pellegrinelli A, Arosio P, Angelini C.

J Clin Oncol. 2013 May 10;31(14):e240-2. IF: 20.982

**52. HER2 in gastric cancer: a digital image analysis in pre-neoplastic, primary and metastatic lesions.**

Fusco N, Rocco EG, Del Conte C, Pellegrini C, Bulfamante G, Di Nuovo F, Romagnoli S, Bosari S.

Mod Pathol. 2013 Jun;26(6):816-24. IF: 5.485

**53. High expression of cathepsin D in non-Hodgkin's lymphomas negatively impacts on clinical outcome.**

Nicotra G, Manfroi F, Follo C, Castino R, Fusco N, Peracchio C, Kerim S, Valente G, Isidoro C.

Dis Markers. 2010;28(3):167-83. IF: 2.137

## Book chapters

**Tubular adenoma of the breast.**

Fusco N, Corti C.

Encyclopedia of Pathology. Springer, 2018

**Premalignant and preinvasive lesions of the breast.**

Fusco N, Guerini-Rocco E.

Breast Cancer: Innovations in Research and Management. Springer, 2017

## Conference papers and presentations

**Prognostic value of TILs (tumor infiltrating lymphocytes) and PET in pleural malignant mesothelioma: retrospective analysis of monocentric experience.**

Righi I, Rosso L, Fusco N, Castellani M, Florimonte L, Sajjadi E, Damarco F, Nosotti M.

27th Meeting of the European Society of Thoracic Surgeons, 2019 June, Dublin, Ireland

**Mismatch repair protein loss is a prognostic and predictive biomarker in breast cancers regardless of microsatellite instability.**

Fusco N, Lopez G, Corti C, Pesenti C, Colapietro P, Ercoli G, Gaudio G, Favarsani A, Gambini D, Despini L, Blundo C, Vaira V, Miozzo M, Ferrero S, Bosari S.

San Antonio Breast Cancer Symposium, 2018 December, San Antonio, TX, USA

**Proposal for integrating the pathologic assessment of lymphovascular invasion and extranodal tumor extension in breast cancer-related lymphedema clinical management.**

Fusco N, Corti C, Lopez G, Michelotti A, Despini L, Gambini D, Lorenzini D, Guerini-Rocco E, Maggi S, Noale M, Invernizzi M.

San Antonio Breast Cancer Symposium, 2018 December, San Antonio, TX, USA

**Metaplastic breast carcinomas and uterine carcinosarcomas are histologically and genetically related**

Da Cruz Paula A, Brown D, Geyer FC, Smith E, Pareja F, Papanastasiou AD, Fusco N, Marchio C, Brogi E, Wen HY, Vincent-Salomon A, Norton L, Weigelt B, Reis-Filho JS.

San Antonio Breast Cancer Symposium, 2018 December, San Antonio, TX, USA

**3D laser scanner sensor for upper limb volume measurement in breast cancer related lymphedema: Preliminary results of a reproducibility and reliability study.**

Invernizzi M, Lippi L, Pasqua S, Galetto A, Gimigliano F, Fusco N, De Sire A, Cisari C.

**12th World Congress of the International Society of Physical and Rehabilitation Medicine. 2018 July, Paris, France**

**Lymphovascular invasion and extranodal tumor extension as risk indicators of breast cancer-related lymphedema.**

Fusco N, Invernizzi M, Corti C, Noale M, Lopez G, Michelotti A, Despini L, Gambini D

**ASCO Annual Meeting, 2018 June, Chicago, IL, USA**

**Novel driver genetic alterations in MYB-NFIB -negative breast adenoid cystic carcinomas.**

Kim J, Geyer FC, Martelotto LG, Ng CKY, Lim RS, Selenica P, Li A, Pareja F, Fusco N, Edelweiss M, Kumar R, Gularte-Merida R, Forbes AN, Khurana E, Mariani O, Badve S, Vincent-Salomon A, Norton L, Reis-Filho JS, Weigelt B.

**San Antonio Breast Cancer Symposium, 2017 December, San Antonio, TX, USA**

**Evaluation of arm volume in healthy subjects: a comparison between a portable laser scanner 3D method and circumferential method.**

Invernizzi M, Fusco N, Bosari S, Cisari C, Baricich A.

**International Society of Physical & Rehabilitation Medicine (ISPRM) World Congress, 2017 May, Buenos Aires, Argentina**

**Genomic characterization of histologically distinct components of uterine carcinosarcomas.**

Geyer F, Burke KA, Ng CK, Shen RL, Fusco N, Marchio C, Murali R, Soslow R, Reis-Filho JS, Weigelt B.

**106th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP), 2017 March, San Antonio, TX, USA**

**PTEN immunohistochemistry is a predictor of mismatch repair status in breast cancer.**

Fusco N, Gambini D, Runza L, Lopez G, Ercoli G, Despini L, Bosari S.

**San Antonio Breast Cancer Symposium, 2016 December, San Antonio, TX, USA**

**CT-guided fine-needle aspiration biopsy of pulmonary lesions under 15 mm of diameter: results on 68 consecutive patients.**

Tosi D, Carrinola R, Palleschi A, Mendogni P, Rosso L, Righi I, Fusco N, Ferrero S, Nosotti M, Bareggi C.

**Congress of the Italian Society of Medical Oncology (AIOM), 2016 October, Rome, Italy**

**Oral presentation: Retained PTEN expression preferentially identifies mismatch repair-proficient breast cancers.**

Fusco N, Runza L, Ercoli G, Gambini D, Blundo C, Despini L, Giroda M, Bosari S.

**European Congress on Digital Pathology, 2016 May, Berlin, Germany**

**The role of multidisciplinary approach in a case of Langerhans cell histiocytosis with initial periodontal manifestations.**

Asa'ad F, Cisternino A, Fusco N, Ferrero S, Rasperini G.

**Osteology Research Forum, 2016 April, Munich, Germany**

**Are there biologic relationships between pulmonary adenofibromas and breast fibroadenomas?**

Fusco N, Guerini-Rocco E, Tosi D, Maggioni M, Runza L, Augello C, Fumagalli C, Vacirca D, Ercoli G, Bosari S, Barberis M, Ferrero S.

**105th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP), 2016 March, Seattle, WA, USA**

**Distinct repertoires of somatic mutations affecting driver genes in mucinous and neuroendocrine carcinomas of the breast**

Piscuoglio S, Ng CKY, Marchio C, Eberle CA, Guerini-Rocco E, Fusco N, Mariani O, Vincent-Salomon A, Weigelt B, Reis-Filho JS.

**San Antonio breast cancer symposium, 2015 December, San Antonio, TX, USA**

**Oral presentation: p16<sup>ink4A</sup> dichotomy in neuroendocrine and non-neuroendocrine lung tumors: a comprehensive analysis with clinicopathologic and molecular correlations**

Fusco N, Vaira V, Del Gobbo A, Guerini-Rocco E, Ercoli G, Bulfamante G, Zito Marino F, Franco R, Palleschi A, Nosotti M, Bosari S, Ferrero S.

**Annual congress of the Italian Society of Pathology (SIAPeC), 2015 September, Milan, Italy**

**Oral presentation: Morphologic and genetic heterogeneity in mixed endometrial carcinomas**

Fusco N, Piscuoglio S, Ng CKY, Guerini-Rocco E, Favarsani A, Lim R, DeLair D, Murali R, Soslow R, Reis-Filho JS, Bosari S, Weigelt B.

**Annual congress of the Italian Society of Pathology (SIAPeC), 2015 September, Milan, Italy**

**Oral presentation: Genetic events in the progression of adenoid cystic carcinomas of the breast to high-grade triple-negative breast cancers**

Fusco N, Martelotto LG, Ng CKY, Fuhrmann L, Cyrta J, Guerini-Rocco E, Sakr RA, Yim E, Marchio C, Lim R, Piscuoglio S, Vincent-Salomon A, Badve S, Ichihara S, Ellis IO, Reis-Filho JS, Weigelt B.

**104th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP), 2015 March, Boston, MA, USA**

**Massively parallel sequencing analysis of acinic cell carcinoma of the breast**

Guerini-Rocco E, Hodi Z, Piscuoglio S, Ng CKY, Schultheis AM, Marchio C, De Mattos-Arruda L, Fusco N, Rakha E, Weigelt B, Ellis IO, Reis-Filho JS.

**104th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP), 2015 March, Boston, MA, USA**

**Massively parallel sequencing reveals that microglandular adenosis is a clonal neoplastic lesion of triple-negative phenotype**

Guerini-Rocco E, Piscuoglio S, Ng CKY, Akram M, Sakr RA, Fusco N, Ichihara S, Vincent-Salomon A, Ellis IO, Weigelt B, Wen YH, Schnitt S, Reis-Filho JS.

**104th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP), 2015 March, Boston, MA, USA**

**Sequencing analysis of triple negative breast carcinoma (TNBC) with a large central acellular zone (LCAZ)**

Weisman P, Brogi E, Won H, Akram M, Ng CKY, Piscuoglio S, Fusco N, Weigelt B, Reis-Filho JS, Norton L, Berger M, Wen HY.

**104th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP), 2015 March, Boston, MA, USA**

**Morphologic and genetic heterogeneity in mixed endometrial carcinomas**

Fusco N, Piscuoglio S, Ng CKY, Guerini-Rocco E, Faversani A, Lim R, DeLair D, Murali R, Soslow R, Reis-Filho JS, Bosari S, Weigelt B.

**104th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP), 2015 March, Boston, MA, USA**

**EWS16T is a useful marker for the detection of microsatellite instability in endometrial cancer**

Piscuoglio S, Da Cruz Paula A, Smolders Y, Fusco N, Martelotto LG, De Mattos-Arruda L, Schultheis AM, Hussein Y, DeLair D, Reis-Filho JS, Weigelt B.

**104th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP), 2015 March, Boston, MA, USA**

**PRKD gene family somatic alterations in polymorphous low-grade adenocarcinomas of the salivary glands**

Piscuoglio D, Weinreb I, Martelotto LG, Ng CKY, Fusco N, Rubin CP, Weigelt B, Reis-Filho JS.

**104th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP), 2015 March, Boston, MA, USA**

**The genomic landscape of male breast cancers**

Piscuoglio S, Murray M, Ng CKY, Guerini-Rocco E, Martelotto LG, Bidard FC, Eberle CA, Fusco N, Sakr RA, De Mattos-Arruda L, Lim R, Baslan T, Hicks J, King TA, Brogi E, Norton L, Weigelt B, Hudis CA, Reis-Filho JS.

**San Antonio breast cancer symposium, 2014 December, San Antonio, TX, USA**

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