

Curriculum Vitae di Anna Calìo

PERSONAL INFORMATION

DATE OF BIRTH: 01/05/1985, Vittorio Veneto (TV)

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CITIZENSHIP: Italian

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EDUCATION

13/10/2010: Graduation in Medicine, University of Udine (110/110 e lode)

11/07/2016: Diploma in Surgical Patology, University of Verona (70/70 e lode)

1/10/2015 a oggi: PhD in Inflammation Immunity and Cancer, University of Verona

TRAINING

June 2015-May 2016: Fellowship in Uropatology at Pathology Department, Indiana University, Indianapolis, USA (Dr. Eble)

September 2016-2017: Incarico di lavoratore autonomo presso UOC di Anatomia Patologica dell'Azienda Ospedaliera Universitaria Integrata di Verona (delibera n.776 del 01.09.2016)

October 2017 a oggi: Ricercatore di tipo A at Department of Diagnostic and Public Health, University of Verona

AWARDS

2013 Best oral communication: *Oncogene induced senescence distinguishes indolent from aggressive form of pulmonary and non-pulmonary Langerhans' cell histiocytosis* Congresso Nazionale SIAPEC-IAP, Roma 2013

2017 Stipend Award della International Society of Urologic Pathology, *on the basis of his past and ongoing career interest in Genitourinary Pathology*, January 2017

CONFERENCES

Invited speaker

1. **Calìo A** : Classificazione WHO dei tumori renali. IX Mediterranean Congress on Oncological Pathology, Gallipoli, October 2016
2. **Calìo A** : My preferred abstract at last EU/US pathology meetings. The 5th World Top Communication of the Year in Genito-Urinar Oncology, Arezzo, November 2016
3. **Calìo A** : Applicazione clinica della classificazione anatomopatologica del mRCC. IV Young Specialist Renal Care, Bologna, January 2017
4. **Calìo A** : Come ottimizzare la qualità e la quantità del campione di tessuto nella determinazione dei biomarcatori : ruolo dell'immunoistochimica e della biologia molecolare. La diagnostica e la medicina di precisione in oncologia : il ruolo dell'immunoterapia nel melanoma e NSCLC, Padova, February 2017
5. **Calìo A** : Le biopsie sotto guida RM. Corso multidisciplinare sui B3 (Convegno Nazionale GISMA 2017), Verona, May 2017
6. **Calìo A** : La neoplasia al centro. La caratterizzazione delle neoplasie urologiche. IX Corso di Aggiornamento in Oncologia, Napoli, June 2017
7. **Calìo A** : Confronto Interistituzionale in Patologia Mammaria da screening Focus sulle lesioni B3, Istituto Oncologico Veneto IOV, Padova September 2017
8. **Calìo A** : Correlazione radioistologica di casistica VABB : diagnosi inaspettate e patologia B3, Bologna, October 2017

9. **Caliò A** : Update immunoistochemica in patologia pleuropolmonare neoplastica e non neoplastica. Congresso Annuale di Anatomia Patologica SIAPEC-IAP, Napoli, October 2017
10. **Caliò A** : Ibridazione in situ in fluorescenza. Congresso Annuale di Anatomia Patologica SIAPEC-IAP, Napoli, October 2017

Oral Presentation

1. Brunelli M, **Caliò A**, Ammendola S, D'Amuri A, Costa G, Sanguedolce F, Martignoni G : Next generation method to score intratumoral heterogeneity of neoangiogenesis in renal cell carcinoma: impact to pioneering clinical trial, Congresso Nazionale SIAPEC-IAP, Napoli, October 2017
2. **Caliò A**, Gilioli E, Pedron S, Martignoni G, Scarpa A, Brunelli M. : Atypical ROS-1 FISH pattern of lung carcinoma: isolated 3' without corresponding 5' signals, Congresso Nazionale SIAPEC-IAP, Napoli, October 2017
3. Brunelli M, **Caliò A**, Eccher A, Ghimenton C, Riva G, Chilosi M, Martignoni G : Cathepsin K is expressed in a subset of castration resistant prostate cancer and in peritumoral stromal and may be considered as a therapeutical target for patients at risk of bone metastases, Congresso Nazionale SIAPEC-IAP, Firenze, October 2014
4. Brunelli M, Bogina G, Marcolini L, Zamboni G, Manfrin E, **Caliò A**, Martignoni G, Bonetti F : Monosomy of chromosome 17 in breast carcinoma. A 3:1 ratio at HER-2 testing should be interpreted as HER-2 negative for gene amplification, Congresso Nazionale SIAPEC-IAP, Firenze, October 2014
5. **Caliò A**, Pilotto S, Gilioli E, Nottegar A, Knuutila S, Chilosi M, Bria E, Tortora G, Scarpa A, Brunelli M : Correction for control chromosomes is critical for determining gene copy number due to polyploidy rather than specific ALK gains in non small cell lung cancer, European Congress of Pathology ECP, Londra, September 2014
6. **Caliò A**, Facchetti F, Zamò A, Martignoni G, Rossi A, Dubini A, Tironi A, Doglioni C, Chilosi M : Oncogene induced senescence distinguishes indolent from aggressive form of pulmonary and non-pulmonary Langerhans' cell histiocytosis, Congresso Nazionale SIAPEC-IAP, Roma, October 2013
7. **Caliò A**, Brunelli M, Nottegar A, Pedron S, Knuutila S, Simionato F, Cingarlini S, Bria E, Tortora G, Calabrò F, Martignoni G, Chilosi M : Inv(2)(p21p23) and t(2;2)(EML4-ALK) detection in pure squamous lung cancer. Time to assess ALK translocation in squamous subtype of lung cancer? Congresso Nazionale SIAPEC-IAP, Firenze, October 2012

Poster Presentation

1. Brunelli M, **Caliò A**, Pedron S, Gobbo S, Martignoni G : Analytical and Interpretative Phases of Molecular Diagnostics of Mit Family Translocation Renal Cell Carcinoma, 106th USCAP Annual Meeting, United States and Canadian Academy of Pathology, San Antonio USA, March 2017
2. **Caliò A**, Bogina G, Munari E, Gilioli E, Chilosi M, Zamboni G, Martignoni G, Brunelli M : Again HER-2/Neu Amplification in Squamous Cell Lung Cancer, Congresso Nazionale SIAPEC-IAP, Genova, November 2016
3. **Caliò A**, Munari E, Zamboni G, Bogina G, Martignoni G¹, Brunelli M : Patients Affected by Advanced Bladder Carcinoma with Strong MDM2 Gene Amplification, Congresso Nazionale SIAPEC-IAP, Genova, November 2016

4. **Caliò A**, Warfel KA, Eble JN : Renomedullary Interstitial Cell Tumors of the Kidney, European Congress of Pathology ECP, Colonia, September 2016
5. **Caliò A**, Warfel KA, Eble JN : Papillary Adenoma of the Kidney, European Congress of Pathology ECP, Colonia, September 2016
6. **Caliò A**, Eble JN, Grignon DJ, Delahunt B : Cystic Nephroma of the Adult, 105th USCAP Annual Meeting, United States and Canadian Academy of Pathology, Seattle USA, March 2016
7. **Caliò A**, Eble JN, Grignon DJ, Delahunt B : Mixed Epithelial and Stromal Tumor of the Kidney, 105th USCAP Annual Meeting, United States and Canadian Academy of Pathology, Seattle USA, March 2016
8. **Caliò A**, Eble JN, Hes O, Martignoni G, Harari SE, Williamson SR, Brunelli M, Osunkoya AO, Wang L, Comperat E, Lopez-Beltran A, Wang M, Zhang S, Curless KL, Post KM, Chang HY, Baldrige LA, MacLennan GT, Montironi R, Grignon DJ, Cheng L : Distinct Clinicopathological Features in Metanephric Adenoma harboring BRAF mutation, 105th USCAP Annual Meeting, United States and Canadian Academy of Pathology, Seattle USA, March 2016
9. Brunelli M, Bogina G, Nottegar A, **Caliò A**, Zamboni G, Manfrin E, Sarhadi V, Chilosi M, Wirtanen T, Bonetti F, Martignoni G, Knuutila S : Monosomy of Chromosome 17 in Breast Carcinoma During Interpretation of Her-2/neu Gene Amplification, 104th USCAP Annual Meeting, United States and Canadian Academy of Pathology, Boston USA, March 2015

PUBBLICATIONS

30 publications from 2012 to 2017 : 10 as first author, 2 as second, 2 as third and 16 as collaborator.

Number of citations on Scopus : 245, mean of citation for manuscript : 8.2

Impact factor : 117.73

H index on Scopus and Web of Science : 7

1. **Caliò A**, Grignon DJ, Stohr BA, Williamson SR, Eble JN, Cheng L. Renal cell carcinoma with TFE3 translocation and succinate dehydrogenase B mutation. *Mod Pathol.* 2017;30(3):407-415.
2. **Caliò A**, Lever V, Rossi A, Gilioli E, Brunelli M, Dubini A, Tomassetti S, Picicchi S, Nottegar A, Rossi G, Kambouchner M, Cancellieri A, Barbareschi M, Pelosi G, Doglioni C, Cavazza A, Carella R, Graziano P, Murer B, Poletti V, Chilosi M. Increased Frequency of Bronchiolar Histotypes in Lung Carcinomas Associated with Idiopathic Pulmonary Fibrosis. *Histopathology.* 2017.
3. **Caliò A**, Bria E, Pilotto S, Gilioli E, Nottegar A, Eccher A, Cima L, Santo A, Pedron S, Turri G, Knuutila S, Chilosi M, Vanzo F, Bogina G, Terzi A, Tortora G, Scarpa A, Loda M, Martignoni G, Brunelli M. ALK gene copy number in lung cancer: Unspecific polyploidy versus specific amplification visible as double minutes. *Cancer Biomark.* 2017;18(2):215-220.
4. Chilosi M, **Caliò A**, Rossi A, Gilioli E, Pedica F, Montagna L, Pedron S, Confalonieri M, Doglioni C, Ziesche R, Grubinger M, Mikulits W, Poletti V. Epithelial to mesenchymal transition-related proteins ZEB1, beta-catenin, and beta-tubulin-III in idiopathic pulmonary fibrosis. *Mod Pathol.* 2017;30(1):26-38.
5. Posenato I, **Caliò A**, Segala D, Sgroi S, Polara A, Brunelli M, Martignoni G. Primary Seminal Vesicle Carcinoma. The Usefulness of Pax8 Immunohistochemical Expression for the Differential Diagnosis. *Hum Pathol.* 2017.

6. Carbognin L, Sperduti I, Fabi A, Dieci MV, Kadrija D, Griguolo G, Pilotto S, Guarneri V, Zampiva I, Brunelli M, Orvieto E, Nortilli R, Fiorio E, Parolin V, Manfrin E, **Caliò A**, Nistico C, Pellini F, Scarpa A, Pollini GP, Conte P, Tortora G, Bria E. Prognostic impact of proliferation for resected early stage 'pure' invasive lobular breast cancer: Cut-off analysis of Ki67 according to histology and clinical validation. *Breast*. 2017;35:21-26.
7. Harari SE, Sassooun DJ, Priemer DS, Jacob JM, Eble JN, **Caliò A**, Grignon DJ, Idrees M, Albany C, Masterson TA, Hanna NH, Foster RS, Ulbright TM, Einhorn LH, Cheng L. Testicular cancer: The usage of central review for pathology diagnosis of orchiectomy specimens. *Urol Oncol*. 2017.
8. Massari F, Ciccarese C, Hes O, Michal M, **Caliò A**, Fiorentino M, Giunchi F, D'Amuri A, Sanguedolce F, Sabbatini R, Guida A, Ardizzoni A, Porta C, Iacovelli R, Tortora G, Cima L, Ortega C, Lapini A, Martignoni G, Brunelli M. The Tumor Entity Denominated "clear cell-papillary renal cell carcinoma" According to the WHO 2016 new Classification, have the Clinical Characters of a Renal Cell Adenoma as does Harbor a Benign Outcome. *Pathol Oncol Res*. 2017.
9. Munari E, Cima L, Massari F, Bertoldo F, Porcaro AB, **Caliò A**, Riva G, Ciocchetta E, Ciccarese C, Modena A, Iacovelli R, Sava T, Eccher A, Ghimenton C, Tortora G, Artibani W, Novella G, Bogina G, Zamboni G, Sanguedolce F, D'Amuri A, Martignoni G, Brunelli M. Cathepsin K expression in castration-resistant prostate carcinoma: a therapeutical target for patients at risk for bone metastases. *Int J Biol Markers*. 2017;32(2):e243-e247.
10. **Caliò A**, Eble JN, Grignon DJ, Delahunt B. Cystic Nephroma in Adults: A Clinicopathologic Study of 46 Cases. *Am J Surg Pathol*. 2016;40(12):1591-1600.
11. **Caliò A**, Eble JN, Grignon DJ, Delahunt B. Mixed Epithelial and Stromal Tumor of the Kidney: A Clinicopathologic Study of 53 Cases. *Am J Surg Pathol*. 2016;40(11):1538-1549.
12. **Caliò A**, Eble JN, Hes O, Martignoni G, Harari SE, Williamson SR, Brunelli M, Osunkoya AO, Wang L, Comperat E, Lopez-Beltran A, Wang M, Zhang S, Curless KL, Post KM, Chang HY, Luchini C, Baldrige LA, MacLennan GT, Montironi R, Grignon DJ, Cheng L. Distinct clinicopathological features in metanephric adenoma harboring BRAF mutation. *Oncotarget*. 2016.
13. **Caliò A**, Warfel KA, Eble JN. Renomedullary Interstitial Cell Tumors: Pathologic Features and Clinical Correlations. *Am J Surg Pathol*. 2016;40(12):1693-1701.
14. **Caliò A**, Warfel KA, Eble JN. Pathological features and clinical associations of 58 small incidental angiomyolipomas of the kidney. *Hum Pathol*. 2016;58:41-46.
15. Kouba EJ, Eble JN, Simper N, Grignon DJ, Wang M, Zhang S, Wang L, Martignoni G, Williamson SR, Brunelli M, Luchini C, **Caliò A**, Cheng L. High fidelity of driver chromosomal alterations among primary and metastatic renal cell carcinomas: implications for tumor clonal evolution and treatment. *Mod Pathol*. 2016;29(11):1347-1357.
16. Massari F, Ciccarese C, **Caliò A**, Munari E, Cima L, Porcaro AB, Novella G, Artibani W, Sava T, Eccher A, Ghimenton C, Bertoldo F, Scarpa A, Sperandio N, Porta C, Bronte V, Chilosi M, Bogina G, Zamboni G, Tortora G, Samaratunga H, Martignoni G, Brunelli M. Magnitude of PD-1, PD-L1 and T Lymphocyte Expression on Tissue from Castration-Resistant Prostate Adenocarcinoma: An Exploratory Analysis. *Target Oncol*. 2016;11(3):345-351.
17. Peretti U, Ferrara R, Pilotto S, Kinspergher S, Caccese M, Santo A, Brunelli M, **Caliò A**, Carbognin L, Sperduti I, Garassino M, Chilosi M, Scarpa A, Tortora G, Bria E. ALK gene copy number gains in non-small-cell lung cancer: prognostic impact and clinico-pathological correlations. *Respir Res*. 2016;17(1):105.
18. Caccese M, Ferrara R, Pilotto S, Carbognin L, Grizzi G, **Caliò A**, Brunelli M, Cuppone F, Petraglia S, Scarpa A, Tortora G, Bria E. Current and developing therapies for the treatment of non-small cell lung cancer with ALK abnormalities: update and perspectives for clinical practice. *Expert Opin Pharmacother*. 2016;17(17):2253-2266.
19. **Caliò A**, Zamo A, Ponzoni M, Zanolin ME, Ferreri AJ, Pedron S, Montagna L, Parolini C, Fraifeld VE, Wolfson M, Yanai H, Pizzolo G, Doglioni C, Vinante F, Chilosi M. Cellular

Senescence Markers p16INK4a and p21CIP1/WAF Are Predictors of Hodgkin Lymphoma Outcome. *Clin Cancer Res.* 2015;21(22):5164-5172.

20. Carbognin L, Pilotto S, Milella M, Vaccaro V, Brunelli M, **Caliò A**, Cuppone F, Sperduti I, Giannarelli D, Chilosi M, Bronte V, Scarpa A, Bria E, Tortora G. Differential Activity of Nivolumab, Pembrolizumab and MPDL3280A according to the Tumor Expression of Programmed Death-Ligand-1 (PD-L1): Sensitivity Analysis of Trials in Melanoma, Lung and Genitourinary Cancers. *PLoS One.* 2015;10(6):e0130142.
21. Pilotto S, Kinspergher S, Peretti U, **Caliò A**, Carbognin L, Ferrara R, Brunelli M, Chilosi M, Tortora G, Bria E. Immune checkpoint inhibitors for non-small-cell lung cancer: does that represent a 'new frontier'? *Anticancer Agents Med Chem.* 2015;15(3):307-313.
22. Brunelli M, Nottesgar A, Bogina G, **Caliò A**, Cima L, Eccher A, Vicentini C, Marcolini L, Scarpa A, Pedron S, Brunello E, Knuutila S, Sapino A, Marchio C, Bria E, Molino A, Carbognin L, Tortora G, Jasani B, Miller K, Merdol I, Zanatta L, Laurino L, Wirtanen T, Zamboni G, Marconi M, Chilosi M, Manfrin E, Martignoni G, Bonetti F. Monosomy of chromosome 17 in breast cancer during interpretation of HER2 gene amplification. *Am J Cancer Res.* 2015;5(7):2212-2221.
23. **Caliò A**, Nottesgar A, Gilioli E, Bria E, Pilotto S, Peretti U, Kinspergher S, Simionato F, Pedron S, Knuutila S, Tortora G, Eccher A, Santo A, Tondulli L, Inghirami G, Tabbo F, Martignoni G, Chilosi M, Scarpa A, Brunelli M. ALK/EML4 fusion gene may be found in pure squamous carcinoma of the lung. *J Thorac Oncol.* 2014;9(5):729-732.
24. Chilosi M, Facchetti F, **Caliò A**, Zamo A, Brunelli M, Martignoni G, Rossi A, Montagna L, Piccoli P, Dubini A, Tironi A, Tomassetti S, Poletti V, Doglioni C. Oncogene-induced senescence distinguishes indolent from aggressive forms of pulmonary and non-pulmonary Langerhans cell histiocytosis. *Leuk Lymphoma.* 2014;55(11):2620-2626.
25. Massari F, Ciccarese C, Porcaro AB, Ferrero S, Gazzano G, Artibani W, Modena A, Bria E, Sava T, **Caliò A**, Novara G, Ficarra V, Chilosi M, Martignoni G, Bosari S, Cheng L, Tortora G, Brunelli M. Quantitative score modulation of HSP90 and HSP27 in clear cell renal cell carcinoma. *Pathology.* 2014;46(6):523-526.
26. Eccher A, Boschiero L, Fior F, Casartelli Liviero M, Zampicini L, Ghimenton C, D'Errico-Grigioni A, **Caliò A**, Martignoni G, Delahunt B, Brunelli M. Donor kidneys with miliary papillary renal cell neoplasia: the role of the pathologist in determining suitability for transplantation. *Ann Transplant.* 2014;19:362-366.
27. Fiorini C, Massari F, Pedron S, Sanavio S, Ciccarese C, Porcaro AB, Artibani W, Bertoldo F, Zampini C, Sava T, Ficial M, **Caliò A**, Chilosi M, D'Amuri A, Sanguedolce F, Tortora G, Scarpa A, Delahunt B, Porta C, Martignoni G, Brunelli M. Methods to identify molecular expression of mTOR pathway: a rationale approach to stratify patients affected by clear cell renal cell carcinoma for more likely response to mTOR inhibitors. *Am J Cancer Res.* 2014;4(6):907-915.
28. Ikeura T, Manfredi R, Zamboni G, Negrelli R, Capelli P, Amodio A, **Caliò A**, Colletta G, Gabbrielli A, Benini L, Okazaki K, Vantini I, Frulloni L. Application of international consensus diagnostic criteria to an Italian series of autoimmune pancreatitis. *United European Gastroenterol J.* 2013;1(4):276-284.
29. Brunelli M, Bria E, Nottesgar A, Cingarlini S, Simionato F, **Caliò A**, Eccher A, Parolini C, Iannucci A, Gilioli E, Pedron S, Massari F, Tortora G, Borze I, Knuutila S, Gobbo S, Santo A, Tondulli L, Calabro F, Martignoni G, Chilosi M. True 3q chromosomal amplification in squamous cell lung carcinoma by FISH and aCGH molecular analysis: impact on targeted drugs. *PLoS One.* 2012;7(12):e49689.
30. Brunello E, Brunelli M, Bogina G, **Caliò A**, Manfrin E, Nottesgar A, Vergine M, Molino A, Bria E, Massari F, Tortora G, Cingarlini S, Pedron S, Chilosi M, Zamboni G, Miller K, Martignoni G, Bonetti F. FGFR-1 amplification in metastatic lymph-nodal and haematogenous lobular breast carcinoma. *J Exp Clin Cancer Res.* 2012;31:103.