



CURRICULUM VITAE

PERSONAL INFORMATION	Antonella Vetuschi Department of Applied Clinical and Biotechnological Sciences Via Vetoio, Coppito 2, Building Camillo De Meis, L'Aquila, 67100 Italy antonella.vetuschi@univaq.it
CURRENT POSITION	Associate Professor
EDUCATION OTHER QUALIFICATIONS	2006 PhD in Experimental and Clinical Hepatology, "Sapienza" University of Rome, Italy. 1989 Specialization: Otolaryngology, University of L'Aquila, Italy. 1986 Degree in Medicine and Surgery, University of L'Aquila, Italy.
ACADEMIC APPOINTMENTS	-2021: suitable for the role of Full Professor Sector 05/H1- Bio/16 (Human Anatomy) -2019: Associate Professor Human Anatomy (BIO/16)- Dept of Applied Clinical and Biotechnological Sciences, State University of L'Aquila, Italy. -2002-2019: Assistant Professor, Human Anatomy (BIO/16)- Dept of Applied Clinical and Biotechnological Sciences, State University of L'Aquila, Italy. -1991-2002: Graduated Research Technician
CLINIC APPOINTMENTS	



TEACHING EXPERIENCE	<p>Degree Course in:</p> <ul style="list-style-type: none"> -Medicine and Surgery -Motory Sciences -Radiodiagnostic Technique -Environment and workplace prevention techniques <p>Medicine and Surgery post lauream Specializations in:</p> <ul style="list-style-type: none"> -Radiodiagnostic, Medical Physics <p>Specializing Master Courses</p> <ul style="list-style-type: none"> -Obstetrics and urogynecological rehabilitation
RESEARCH ACTIVITIES	<p>Scientific activity is conducted to increase the base knowledge understanding the molecular and functional mechanisms in the following biomedical fields:</p> <p>a) structural, ultrastructural and immunohistochemical studies of intestinal tract in normal condition, in experimental animal models (TNBS and DSS experimental colitis both in normal, in Smad3 Knock-out mice and in high-carbohydrate and high-fat diets) and in human biopsies (surgical samples of terminal ileum and colon from patients affected by Inflammatory Bowel Disease);</p> <p>b) morphological and metabolic alterations occurring in liver parenchyma NAFLD/NASH in experimental model of metabolic syndrome diet induced as well as the pathways involved in human and experimental liver disease (hepatic steatosis, fibrosis, cirrhosis and hepatocarcinoma and cholangiocarcinoma)</p> <p>c) immunohistochemical study on the main pathways implicated in Pelvic Organ Prolapse (Transforming Growth Factor-β/Smads, Advanced Glycation End products, Mitogen Activated Protein Kinases);</p> <p>d) structural and immunohistochemical studies on different Histone Deacetylase (HDAC 1,2,3,4,6,8) expression as well CXR4 and CXCR7 expression in human gliomas.</p>
RESPONSIBILITY IN ACADEMIC ACTIVITIES	<ul style="list-style-type: none"> -Member of Animal Welfare Board (OPBA, Organismo per il Benessere Animale), University of L'Aquila, Italy -Member of Electronic Microscopy Board, University of L'Aquila, Italy
EDITORIAL BOARD, EDITORIAL ACTIVITIES, SOCIETY MEMBERSHIP	<ul style="list-style-type: none"> -Editorial Board Member of Universal Journal of Gastroenterology Open Access -Member of Italian Society of Anatomy and Histology -Member of Italian Society of Histochemistry
SCIENTIFIC ACHIEVEMENTS BIBLIOMETRIC INDICATORS	<p>Scopus Author ID: Author ID:6602911062 http://orcid.org/0000-002-0237-3834</p> <ul style="list-style-type: none"> -Bibliometric indicators •Scopus (http://www.scopus.com)



	<ul style="list-style-type: none"> • Web of Sciences core collection (http://apps.webofknowledge.com)
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SELECTED PUBLICATIONS	<p>Sferra R, Pompili S, Cappariello A, Gaudio E, Latella G*, Vetuschi A*. Prolonged chronic consumption of a high-fat diet may alter the integrity of the intestinal mucosa barrier. Int Journal of Molecular Sciences 2021, submitted for publication (*equally contributed last authors).</p> <p>-Vetuschi A, Battista N, Pompili S, Prete R, Taticchi A, Selvaggini R, Latella G, Corsetti A, Sferra R. Anti-inflammatory and anti-fibrotic effect of olive phenols and Lactiplantibacillus plantarum IMC513 in dextran sodium sulfate (DSS)-induced chronic colitis. Nutrients 2021, submitted for publication.</p> <p>-Pompili S, Latella G, Gaudio E, Sferra R*, Vetuschi A* The charming world of the Extracellular Matrix: a dynamic and protective network of the intestinal wall. Frontiers in Medicine, Gastroenterology, 2021., vol. 8, ISSN: 2296-858X, doi: 10.3389/fmed.2021.610189 (*equally contributed last authors).</p> <p>-Pompili S*, Vetuschi A*, Gaudio E, Tessitore A, Capelli R, Alesse E, Latella G, Sferra R, Onori P. Long-term abuse of high-carbohydrate diet is harmful as high-fat diet for development and progression of liver injury in a mouse model of NAFLD/NASH. Nutrients, 75-76, 110782, 2020. (*equally contributed first authors)</p> <p>-Vetuschi A*, Pompili S*, Di Marco GP, Calvaruso F, Iacomino E, Angelosante I, Festuccia C, Colapietro A, Sferra R. Can the AGE/RAGE/ERK signaling pathway and the epithelial-to-mesenchymal transition interact in the pathogenesis of chronic rhinosinusitis with nasal polyps? European Journal of Histochemistry, 2020. Doi: 10.4081/ejh.2020.3079 (*equally contributed first authors).</p> <p>-Festuccia C, Mancini A, Gravina GL Colapietro A, Vetuschi A, Pompili S, Ventura I, Delle Monache S, Iorio R, Del fattore A, Fogler W, Magnani J. Dual CXCR4 and E-selectin inhibitor, GMI1359, shows anti-bone metastatic effects and synergizes with docetaxel in prostate cancer cell intrasosseous growth. Cells, 2019. Doi: 10.3390/cells9010032.</p> <p>-Pompili S, Sferra R, Gaudio E, Viscido A, Frieri F, Vetuschi A*, Latella G*. Can Nrf2 modulate the development of intestinal fibrosis and cancer in</p>
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Inflammatory Bowel Disease? Int Journal of Molecular Sciences,2019. Doi: 10.3390/ijms20164061. (*equally contributed last authors)

-Sferra R, Pompili S, D'Alfonso A, Sabetta G, Gaudio E, Carta G, Festuccia C, Colapietro A, **Vetuschi A**.

Neurovascular alterations of muscularis propria in the human anterior vaginal wall in Pelvic Organ Prolapse (POP). J of Anatomy, 2019. doi: 10.1111/joa.13014.

-Mancinelli R, Mammola CL, Sferra R, Pompili S, **Vetuschi A**, Pannarale L. Role of the angiogenic factors in cholangiocarcinoma. Applied Biosciences and Bioengineering, 2019. doi: 10.3390/app9071393.

-Varrassi M, Sferra R, Gravina GL, Pompili S, Fidanza R, Ventura M, Splendiani A, Barile A, **Vetuschi A***, Di Cesare E*. Carotid artery plaque characterization with a wide detector Computed Tomography using a delicated post-processing 3D analysis: comparison with histology.

Radiol Med, 2019 doi: 10.1007/s11547-019-01026-8.

(*equally contributed last authors)

-Di Emidio G, Santini SJ, D'Alessandro AM, **Vetuschi A**, Sferra R, Artini PG, Carta G, Falone S, Amicarelli F, Tatone C. SIRT1 parteciates in response to methylglyoxal-dependent glycative stress in mouse oocytes and ovary. BBA-Molecular basis of Disease, 2019. doi:10.1016/j.bbadis.2019.02.011

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PPAR- γ with its anti-inflammatory and antifibrotic action could be an effective therapeutic target in IBD.

Eur Rev Med Pharmacol Sci 22(24): 8839-8848, 2018. doi: 10.26355/eurrev_201812_16652.

-Festuccia C, Mancini C, Colapietro A, Gravina GL, Vitale F, Marampon F, Delle Monache S, Pompili S, Cristiano L, **Vetuschi A**, Tombolini V, Chen Y, MehrlingTJ.

The first -in – class alkylating deacetylase inhibitor molecule timostimuline shows antitumor effect and is synergistic with radiotherapy in preclinical models of glioblastoma. J Hematol Oncol. 2018, 311(1):32. doi10.1186/s13045-018-0576-6.

-Mammola CL, **Vetuschi A**, Pannarale L, Sferra R, Mancinelli R.

Epidermal growth factor-like domain multiple 7 (EGFL7): expression and possible effect on biliary epithelium growth in cholangiocarcinoma.

Eur J Histochem. 2018 Nov 30;62(4). doi:10.4081/ejh.2018.2971. PMID:30504933.



Sferra R, Pompili S, Ventura L, Dubuquoy C, Specca S, Gaudio E, Latella G, **Vetuschi A**. Interaction between Sphingosine kinase/Sphingosine 1 phosphate and Transforming Growth Factor- β /Smads pathways in experimental intestinal fibrosis: an in vivo immunohistochemical study. *Eur J Histochem.* 31;62 (3) 2018. doi 10.4081/ejh2018.2956

-**Vetuschi A**, Pompili S, Gallone A, D'Alfonso A, Carbone AG, Carta G, Festuccia C, Gaudio E, Colapietro A, Sferra R. Immunolocalization of Advanced Glycation End Products, Mitogen Activated Protein Kinases and Transforming Growth Factor- β /Smads in Pelvic Organ prolapse. *J Histochem & Cytochem.* May 2018.doi:10.1369/0022155418772798.

-Gravina GL, Mancini A, Colapietro A, Vitale F, **Vetuschi A**, Pompili S, Rossi G, Marampon F, Richardson PJ, Patient L, Burbidge S, Festuccia C. The novel CXCR4 antagonist, PRX177561, reduces tumor cell proliferation and accelerates cancer stem cell differentiation in glioblastoma preclinical models. *Tumor Biol* 2017. Doi 10.1177/1010428317695528.

-Gravina GL, Marampon F, Sanità P, Festuccia C, Forcella C, scarsella L, Jitauric A, **Vetuschi A**, Sferra R, Colapietro A, Carosa R, Dolci S, Lenzi A, Iannini EA. Episode-like pulse testosterone supplementation induces tumor senescence and growth arrest down-modulating androgen receptor through modulation of p-ERK1/2, pARser81 and CDK1 signaling: biological implications for men treated with testosterone replacement therapy. *Oncotarget* 2017, 30; 8(69):113806. Doi 10.18632/oncotarget 22776.

-Cinque L, De Santis A, Di Giamberardino P, Iacovello D, Placidi G, Pompili S, Sferra R, Spaziale M, **Vetuschi A**. Design of a Classification Strategy for Light Microscopy Images of the Human Liver. *Image Analysis and Processing* 2017. Doi: org/10.1007/978-3-319-68560-1_56.

-Di Emidio G, Rossi G, Bonomo I, Alonso GL, Sferra R, **Vetuschi A**, Artini PG, Provenzani A, Falone S, Carta G, D'Alessandro AM, Amicarelli F, Tatone C. The natural carotenoid crocetin and the synthetic tellurium compound AS101 protect the ovary against cyclophosphamide by modulating SIRT1 and mitochondrial markers. *Oxid Med Cell Longev.* 2017 doi:10.1155/2017/8928604.

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Sferra R, Pompili S, Festuccia C, Marampon F, Gravina GL, Ventura L, Di Cesare E, Cicchinelli S, Gaudio E, **Vetuschi A**. The possible prognostic role of histone deacetylase and transforming growth factor β /Smad signaling in high grade gliomas treated by radio-chemotherapy: a preliminary immunohistochemical study. *Eur J Histochem* 2017, 61(2): 69-105. doi: 10.4081/ejh.2017.2732

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-Di Gregorio J, Sferra R, Specca S, **Vetuschi A**, Dubuquoy C, Desreumaux P, Pompili S, Cristiano L, Gaudio E, Flati V, Latella G. Role of glycogen synthase kinase-3 β and PPAR- γ on epithelial-to-mesenchymal transition in DSS-induced colorectal fibrosis. *PLoS One.* 2017 Feb 16;12(2):e0171093. doi: 10.1371/journal.pone.0171093.s

-Gravina GL, Mancini A, Mattei C, Vitale F, Marampon F, Colapietro A, Rossi G, Ventura L, **Vetuschi A**, Di Cesare E, Fox JA, Festuccia C. Enhancement of radiosensitivity by the novel anticancer quinolone derivative vasaroxin in preclinical glioblastoma models. *Oncotarget* 2017; 8(18): 29865-29886. Doi: 10.18632/oncotarget.16168.

Marampon F, Gravina GL, Ju X, **Vetuschi A**, Sferra R, Casimiro MC, Pompili S, Festuccia C, Colapietro A, Gaudio E, Di Cesare E, Tombolini V, Pestell RG. Cyclin D1 silencing suppresses tumorigenicity, impairs DNA double strand break repair and thus radiosensitizes androgen-independent prostate cancer cells to DNA damage. *Oncotarget* 2016 Sep 27;7(39):64526. Doi:10.18632/oncotarget.12267.

Sferra R, **Vetuschi A**, Pompili S, Gaudio E, Specca S, Latella G. Expression of pro-fibrotic and anti-fibrotic molecules in dimethylnitrosamine-induced hepatic fibrosis. *Pathol Res Pract.* 2016 doi:10.1016/j.prp.2016.11.004.

-Mancinelli R, Franchitto A, Glaser S, **Vetuschi A**, Venter J, Sferra R, Pannarale L, Oliviero F, Carpino G, Alpini G, Onori P, Gaudio E. Vasopressin regulates the growth of the biliary epithelium in polycystic liver disease. *Lab Invest*, 2016, 6(11):1147-1155. Doi: 10.1038/labinvest.2016.93.

-**Vetuschi A**, D'Alfonso A, Sferra R, Zanelli D, Pompili S, Patacchiola F,



	<p>Gaudio E, Carta G. Changes in muscularis propria of anterior vaginal wall in women with pelvic organ prolapse. <i>Eur J Histochem.</i> 2016 Feb 16;60(1):2604. doi: 10.4081/ejh.2016.2604.</p> <p>-Tessitore A, Cicciarelli G, Del Vecchio F, Gaggiano A, Verzella D, Fischietti M, Mastroiaco V, Vetuschi A, Sferra R, Barnabei R, Capece D, Zazzeroni F, Alesse E. MicroRNA expression analysis in high fat diet-induced NAFLD-NASH-HCC progression: study on C57BL/6J mice. <i>BMC Cancer.</i> 2016 Jan 5;16:3. doi: 10.1186/s12885-015-2007-1</p> <p>-Specca S, Rousseaux C, Dubuquoy C, Rieder F, Vetuschi A, Sferra R, Giusti I, Bertin B, Dubuquoy L, Gaudio E, Desreumaux P, Latella G The novel PPARγ Modulator GED-0507-34Levo ameliorates inflammation – driven intestinal fibrosis. <i>Inflamm Bowel Dis.</i> 2016 Feb;22(2):279-92.</p> <p>-Mancinelli R, Glaser S, Francis H, Carpino G, Franchitto A, Vetuschi A, Sferra R, Pannarale L, Venter J, Meng F, Alpini G, Onori P, Gaudio E. Ischemia reperfusion of the hepatic artery induces the functional damage of large bile ducts by changes in the expression of angiogenic factors. <i>Am J Physiol Gastrointest Liver Physiol.</i> 2015 Dec 1;309(11):G865-73. doi: 10.1152/ajpgi.00015.2015.</p> <p>Severi C, Sferra R, Scirocco A, Vetuschi A, Pallotta N, Pronio A, Caronna R, Di Rocco G, Gaudio E, Corazziari E, Onori P Contribution of intestinal smooth muscle to Crohn's disease fibrogenesis. <i>Eur J Histochem</i> 2014, 17;58(4):2457 doi: 10.4081/ejh.2014.2457.</p> <p>Sferra R, Fagnoli MC, Corbelli E, Pellegrini C, Peris K, Gaudio E, Vetuschi A. Immunopathogenesis of psoriasis: a possible role of TGFβ/Smads pathway. <i>Ital J Anat Embryol.</i> 2014;119(3):277-85.</p> <p>-Vetuschi A, Latella G, Pompili S, Gaudio E, Sferra R. Features of intestinal lesions in the clinical course of Inflammatory Bowel Diseases. <i>Ital J Anat Embryol.</i> 2014;119(3):286-303.</p> <p>-Latella G, Vetuschi A, Sferra R, Specca S, Gaudio E. Localization of $\alpha\beta 6$ integrin- TGFβ/Smad3, mTOR and PPARγ in experimental colorectal fibrosis. <i>Eur J Histochem.</i> 2013 Dec 4;57(4):e40.doi:10.4081/ejh.2013.e40</p> <p>-Latella G, Sferra R, Specca S, Vetuschi A, Gaudio E. Can we prevent, reduce or reverse intestinal fibrosis in IBD? <i>Eur Rev Med Pharmacol SCI.</i> 2013, 17 (10): 1283-304.</p>
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Latella G, Sferra R, **Vetuschi A**, Zanninelli G, D'Angelo A, Catitti V, Caprilli R, Gaudio E. Prevention of colonic fibrosis by *Boswellia* and *Scutellaria* extracts in rats with colitis induced by 2,4,5-trinitrobenzene sulphonic acid. *Eur J Clin Invest.* 2008 Jun;38(6):410-20.

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-D'Antonio D, Parruti G, Pontieri E, Di Bonaventura G, Manzoli L, Sferra R, **Vetuschi A**, Piccolomini R, Romano F, Staniscia T. Slime production by clinical isolates of *Blastoschizomyces capitatus* from patients with hematological malignancies and catheter-related fungemia. *Eur J Clin Microbiol Infect Dis*. 2004 Oct;23(10):787-9.

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Dextran sulfate sodium (DSS) colitis in rats: clinical, structural, and ultrastructural aspects. *Dig Dis Sci*. 1999 Jul;44(7):1458-75.

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Onychomycosis caused by *Blastoschizomyces capitatus*. *J Clin Microbiol*. 1999 Sep;37(9):2927-30.



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PLACE AND DATE

L'Aquila March 1, 2021