

# ***Curriculum Vitae***

## **Mirco Galie', Ph.D.**

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**Education:** Apr 2005, Ph.D.  
University of Verona, Faculty of Medicine, Italy

Dec 1999, Bachelor Degree in Biology cum laude  
University of Camerino, Faculty of Sciences, Italy

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### **Professional Training and Positions:**

2020-present Associate Professor  
Department of SNNMM, Section of Anatomy and  
Histology, University of Verona, 37134 Verona, Italy.

2006-2012 Assistant Professor  
Department of SNNMM, Section of Anatomy and  
Histology, University of Verona, 37134 Verona, Italy.

2011-2012 Visiting Assistant Professor  
Department of Internal Medicine  
Division of Hypothalamic Research  
The University of Texas Southwestern  
Dallas, TX, USA

2005-2006 Post-doctoral Fellow  
Department of Morphological and Biomedical Sciences,  
Section of Anatomy and Histology, University of Verona,  
37134 Verona, Italy.

2002-2005 PhD Student  
Department of Morphological and Biomedical Sciences,  
Section of Anatomy and Histology, Faculty of Medicine  
University of Verona, 37134 Verona, Italy.

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## Teaching Experience:

2006-present

Professor of Human Anatomy I and president of the evaluation commission for the Master degree course in *Medicine and Surgery with engineering specialization* at the Faculty of Medicine and Surgery, University of Verona

Professor of the Human Anatomy module in the inter-university degree course (UNIVR and UNIMO) in *Engineering of medical systems for the person*

Teacher of Human Anatomy I exercises and member of the evaluation commission for the *Anatomy I and II* exam tests for the degree course in Medicine and Surgery at the Faculty of Medicine and Surgery, University of Verona

Teacher of the Human Anatomy module in the Physiotherapy degree course at the University of Verona (Vicenza campus)

Teacher in Human Anatomy modules in Physiotherapy degree courses at the University of Verona (Vicenza campus)

In the past, professor of Human Anatomy modules in the degree courses in Biomedical Laboratory Technician, Cardiovascular Perfusion Technician, Psychiatric Rehabilitation Technician, Obstetrics, Dental Hygiene at the University of Verona (Verona campus)

2021 Teacher and member of the Master Scientific Committee in "Aesthetic, regenerative and anti-aging medicine (level II)".  
University of Verona

Master teacher in "Oxygen-ozone therapy in medical practice: from basic mechanisms to treatment (2nd level)".  
University of Verona

Member of the Doctoral Teaching Committee in:

- MULTIMODAL IMAGING IN BIOMEDICINE" Starting academic year: 2006 - Cycle: XXII
- Proposing University: University of VERONA Title:

"NANOTECHNOLOGIES AND NANOMATERIALS FOR BIOMEDICAL APPLICATIONS"

Starting academic year: 2008 - Cycle: XXIV

• INANOSCIENCE and ADVANCED TECHNOLOGIES"  
Starting academic year: 2017

2006-present Tutoring of doctoral theses and degree theses as supervisor and co-supervisor.

Member of the judging commission for final doctoral exams at the Universities of Verona, Padua, Ancona and Camerino.

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#### Original peer-reviewed reports:

#### ORCID ID

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Scopus Citazioni totali: 2924; H index:23;

#### Componente del consiglio direttivo ARC-NET

#### Original peer-reviewed reports:

1.

**Galiè M\***, D'Onofrio M, Calderan L, Nicolato E, Amici A, Crescimanno C, Marzola P, Sbarbati A. In vivo mapping of spontaneous mammary tumors in transgenic mice using MRI and ultrasonography.

*J Magn Res Imaging* 2004; 19(5), 570-9.

\* = Corresponding author

2.

**Galiè M\***, D'Onofrio M, Montani M, Amici A, Calderan L, Marzola P, Benati D, Merigo F, Marchini C, Sbarbati A. Tumor vessel compression hinders perfusion of ultrasonographic contrast agents.

*Neoplasia* 2005; 7(5):528-36.

\* = Corresponding author

3.

**Galiè M\***, Sorrentino C, Montani M, Micossi L, Di Carlo E, D'Antuono T, Calderan L, Marzola P, Benati D, Merigo F, Orlando F, Smorlesi A, Marchini C, Amici A, Sbarbati A. Mammary carcinoma provides highly tumorigenic and invasive reactive stromal cells. *Carcinogenesis* 2005;

26(11):1868-78.

\* = Corresponding author

4.

Sbarbati A, Osculati F, Silvani D, Benati D, **Galiè M**, Camoglio FS, Rigotti G, Maffei C. Obesity and inflammation: evidence for an elementary lesion.

*Pediatrics* 2006; 117(1):220-3.

5.

Krampera M, Marconi S, Pasini A, **Galiè M**, Rigotti G, Mosna F, Tinelli M, Lovato L, Anghileri E, Andreini A, Pizzolo G, Sbarbati A, Bonetti B. Induction of neural-like differentiation in human mesenchymal stem cells derived from bone marrow, fat, spleen and thymus.  
*Bone* 2006; 40(2):382-90.

6.

**Galiè M**\*, Pignatti M, Scambi I, Sbarbati A, Rigotti G. Comparison of different protocols for the best yields of adipose-derived stromal cells (ADSC) from lipoaspirates.  
*Plastic and Reconstructive Surgery* 2008; 122(6): 233e-234e.

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7.

Rigotti G, Marchi A, **Galiè M**, Baroni G, Benati D, Krampera M, Pasini A, Sbarbati A. Clinical treatment of radiotherapy tissue damages by lipoaspirates transplant: a healing process mediated by adipose-derived adult stem cells (ASCs).  
*Plastic and Reconstructive Surgery* 2007; 119(5):1409-22.

8.

Fabene PF, Merigo F, **Galiè M**, Benati D, Bernardi P, Farace P, Nicolato E, Marzola P, Sbarbati A. "Pilocarpine-induced status epilepticus in rats involves mixed ischemic and excitotoxic mechanisms".  
*PLoS One* 2007, 2(10):e11105..

9.

**M. Galiè**\*, P. Farace, C. Nanni, A. Spinelli, E. Nicolato, F. Boschi, P. Magnani, S. Trespidi, V. Ambrosini, S. Fanti, F. Merigo, F. Osculati, P. Marzola, A. Sbarbati. Epithelial and mesenchymal tumor compartments exhibit *in vivo* complementary patterns of vascular perfusion and glucose metabolism.  
*Neoplasia* 2007; 9(11):900-8.

\* = Corresponding author

10.

Boschi F, Marzola P, Sandri M, Nicolato E, **Galiè M**, Fiorini S, Merigo F, Lorusso V, Chaabane L, Sbarbati A. Tumor microvasculature observed using different contrast agents: a comparison between Gd-DTPA-Albumin and B-22956/1 in an experimental model of mammary carcinoma.  
*MAGMA*. 2008; 21(3):169-76.

11.

Merigo F, Benati D, **Galiè M**, Crescimanno C, Osculati F, Sbarbati A. Immunohistochemical Localization of Cystic Fibrosis Transmembrane Regulator and Clara Cell Secretory Protein in Taste Receptor Cells of Rat Circumvallate Papillae.  
*Chem Senses* 2008; 33(3):231-41.

12.

Anghileri E, Marconi S, Pignatelli A, Cifelli P, **Galiè M**, Sbarbati A, Krampera M, Belluzzi O, Bonetti B. Neuronal differentiation potential of human adipose-derived mesenchymal stem cells.  
*Stem Cell Dev* 2008; 17(5):909-16.

13.

D. Peroni, I. Scambi, A. Pasini, V. Lisi, F. Bifari, M. Krampera, G. Rigotti, A. Sbarbati, **M. Galiè\***.  
Stem molecular signature of adipose-derived stromal cells.

*Exp Cell Res* 2008; 314(3):603-15.

\* = Corresponding author

14.

**Galiè M\***, Konstantinidou G, Peroni D, Scambi I, Marchini C, Magnani P, Merigo F, Montani M, Boschi F, Marzola P, Orrù R, Lisi V, Krampera M, Farace P, Sbarbati A, and Amici A. Mesenchymal stem cells share molecular signature with mesenchymal tumor cells and favors the early tumor growth in syngeneic mice.

*Oncogene* 2008; 27(18):2542-51.

\* = Corresponding author

15.

Farace P, **Galiè M**, Merigo F, Daducci A, Calderan L, Nicolato E, Degrossi A, Pesenti E, Sbarbati A and Marzola M. Inhibition of tyrosine kinase receptors by SU6668 promotes abnormal stromal development at the periphery of carcinomas.

*Br J Cancer* 2009 May 19;100(10): 1575-80.

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Constantin G, Marconi S, Rossi B, Angiari S, Calderan L, Anghileri E, Gini B, Bach SD, Martinello M, Bifari F, **Galiè M**, Turano E, Budui S, Sbarbati A, Krampera M, Bonetti B. Adipose-Derived Mesenchymal Stem Cells Ameliorate Chronic Experimental Autoimmune Encephalomyelitis.

*Stem Cells* 2009, 27(10):2624-35.

17.

**Galiè M**, Farace P, Merigo F, Fiorini S, Tambalo S, Nicolato E, Sbarbati A, Marzola P. Washout of small molecular contrast agent in carcinoma-derived experimental tumors.

*Microv Res* 2009, 78(3):370-8.

18.

Rigotti G, Marchi A, Stringhini P, Baroni G, **Galiè M**, Molino AM, Mercanti A, Micciolo R, Sbarbati A. Determining the oncological risk of autologous lipoaspirate grafting for post-mastectomy breast reconstruction.

*Aesthetic Plast Surg* 2010;34(4):475-80.

19.

Tornillo G, Bisaro B, Camacho-Leal MD, **Galiè M**, Provero P, Di Stefano P, Turco E, Defilippi P, Cabodi S. p130Cas promotes invasiveness of three-dimensional ErbB2-transformed mammary acinar structures by enhanced activation of mTOR/p70S6K and Rac1.

*Eur J Cell Biol.* 2011;90(2-3):237-48.

20.

Marchini C, Montani M, Konstantinidou G, Orrù R, Mannucci S, Ramadori G, Gabrielli F, Baruzzi A, Berton G, Merigo F, Fin S, Iezzi M, Bisaro B, Sbarbati A, Zerani M, **Galiè M\*** and Amici A\*.

Mesenchymal/stromal gene expression signature relates to basal-like breast cancers, identifies bone metastasis and predicts resistance to therapies.

*PlosONE*, 2011;5(11):e14131.

\* = Corresponding author

21.

Bisaro B, Montani M, Konstantinidou G, Marchini C, Pietrella L, Iezzi M, **Galiè M**, Orso F, Camporeale A, Colombo SM, Di Stefano P, Tornillo G, Camacho-Leal MD, Turco E, Taverna D, Cabodi S, Amici A, Defilippi P. p130Cas/Cyclooxygenase-2 axis in the control of mesenchymal plasticity of breast cancer cells.

*Breast Cancer Res* 2012;14(5):R137.

22.

Ramadori G, Konstantinidou G, Venkateswaran N, Biscotti T, Morlock L, **Galiè M**, Williams NS, Luchetti M, Santinelli A, Scaglioni PP, Coppari R. Diet-induced unresolved ER stress hinders KRAS-driven lung tumorigenesis.

*Cell Metab* 2015;21(1):117-25.

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Anderson J, Ramadori G, M. Ioris R, **Galiè M**, Berglund E, Coate KC, Fujikawa T, Pucciarelli S, Moreschini B, Amici A, Andreani C and Coppari R. Enhanced insulin sensitivity in skeletal muscle and liver by physiological overexpression of SIRT6.

*Mol Metab* 2015;4(11):846-56.

24.

Loris RM\*, **Galiè M\***, Ramadori G\*, Anderson JG, Charollais A, Konstantinidou G, Brenachot X, Aras E, Goga A, Ceglia N, Sebastián C, Martinvalet D, Mostoslavsky R, Baldi P, Coppari R. SIRT6 Suppresses Cancer Stem-like Capacity in Tumors with PI3K Activation Independently of its Deacetylase Activity.

*Cell Rep.* 2017;18(8):1858-1868.

\*= Co-first author

25.

Scassellati C, Costanzo M, Cisterna B, Nodari A, **Galiè M**, Cattaneo A, Covi V, Tabaracci G, Bonvicini C, Malatesta M. Effects of mild ozonisation on gene expression and nuclear domains organization in vitro.

*Toxicol In Vitro.* 2017; 44:100-110.

26.

**Galiè M**, Boschi F, Scambi I, Merigo I, Marzola P, Altabella L, Lavagnolo U, Sbarbati A, Spinelli AE. Theranostic role of 32P-ATP as radiopharmaceutical for the induction of massive cell death within avascular tumor core.

*Theranostics*, 2017; 7(18):4399-4409.

27.

**Galiè M**, Costanzo M, Nodari A, Boschi F, Calderan L, Mannucci S, Covi V, Tabaracci G, Malatesta M. Mild ozonisation activates antioxidant cell response by the Keap1/Nrf2 dependent pathway.

*Free Radic Biol Med*, 2018;124:114-121.

28.

Visonà SM, Benati D, Monti MC, **Galiè M**, Andrello L, Frontini A, Osculati A. Diagnosis of sudden cardiac death due to early myocardial ischemia: An ultrastructural and immunohistochemical study.

*European Journal of Histochemistry*, 2018; 62:2866.

29.

Aras E, Ramadori K, Kinouki K, Liu Y, Loris RM, Brenachot X, Ljubicic S, Durebex CV, Mannucci S, **Galiè M**, Baldi P, Sassoni-Corsi P, Coppari R. Light Entrainment of Diurnal Changes in Insulin Sensitivity of Skeletal Muscle via Ventromedial Hypothalamic Neurons.

*Cell Rep* 2019 May 21;27(8):2385-2398

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**Galiè M**, Covi V, Tabaracci G, Malatesta M. The Role of Nrf2 in the Antioxidant Cellular Response to Medical Ozone Exposure.

*Int J Mol Med* 2019 Aug 17;20(16):4009

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Aras E, Ramadori K, Kinouki K, Liu Y, Loris RM, Brenachot X, Ljubicic S, Durebex CV, Mannucci S, **Galiè M**, Baldi P, Sassoni-Corsi P, Coppari R. Light Entrainment of Diurnal Changes in Insulin Sensitivity of Skeletal Muscle via Ventromedial Hypothalamic Neurons.

*Cell Rep* 2019 May 21;27(8):2385-2398

32.

**Galiè M\***, RAS as supporting actor in Breast Cancer.

*Front Oncol.* 2019; 9:1199

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33.

Saliakoura M, Reynoso-Moreno I, Pozzato C, Rossi Sebastiano M, **Galiè M**, Gertsch J, Konstantinidou G. ACSL3-LPIAT1 signaling drives prostaglandin synthesis in non-small cell lung cancer.

*Oncogene.* 2020 Apr;39(14):2948-2960

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Rossi Sebastiano M, Pozzato C, Saliakoura M, Yang Z, Peng RW, **Galiè M**, Oberson K, Simon HU, Karamitopoulou E, Konstantinidou G. ACSL3-PAI-1 signaling axis mediates tumor-stroma cross-talk promoting pancreatic cancer progression.

*Science Adv.* 2020 Oct 30;6(44):eabb9200

35.

Cisterna B, Costanzo M, Nodari A, **Galiè M**, Zanzoni S, Bernardi P, Covi V, Tabaracci G, Malatesta M. Ozone Activates the Nrf2 Pathway and Improves Preservation of Explanted Adipose Tissue In Vitro.

*Antioxidants (Basel).* 2020 Oct 14;9(10):989

36.

Cisterna B, Costanzo M, Lacavalla MA, **Galiè M**, Angelini O, Tabaracci G, Malatesta M. Low Ozone Concentrations Differentially Affect the Structural and Functional Features of Non-Activated and Activated Fibroblasts In Vitro.

*Int J Mol Sci.* 2021 Sep 20; 22(18):10133

37.

Cappellosa E, Costanzo M, Calderan L, **Galiè M**, Angelini O, Tabaracci G, Malatesta M. Low Ozone Concentrations Affect the Structural and Functional Features of Jurkat T Cells.

*Processes* 2021 9(6), 1030.

38.

Nodari A, Scambi I, Peroni D, Calabria E, Benati D, Mannucci S, Manfredi M, Frontini A, Visonà S, Bozzato A, Sbarbati A, Schena F, Marengo E, Krampera M, **Galiè M\***. Interferon regulatory factor 7 impairs cellular metabolism in aging adipose-derived stromal cells.

*J Cell Sci.* 2021 Jun 1; 134(11).

\* = Corresponding author

39.

Scambi I, Peroni D, Nodari A, Merigo F, Benati D, Boschi F, Mannucci S, Frontini A, Visonà S, Sbarbati A, Krampera M, **Galiè M**. The transcriptional profile of adipose-derived stromal cells (ASC) mirrors the whitening of adipose tissue with age.

*Eur J Cell Biol.* 2022 Feb 8;101(2):151206

40.

La Cavalla A, Inguscio CR, Cisterna B, Bernardi P, Costanzo M, **Galiè M**, Scambi I, Angelini O, Tabaracci G, Malatesta M. Ozone at low concentration modulates microglial activity in vitro: A multimodal microscopy and biomolecular study. *Microscopy Res and Technique.* 2022; 85(12):3777-92

41.

Repelin M, Canton F, Boschi F, Galiè M, Perduca M, Calderan L, Jacquier A, Carras J, Schaeffer L, Briancon S, Lollo G, Malatesta M. Repurposing pentamidine using hyaluronic acid-based nanocarriers for skeletal muscle treatment in myotonic dystrophy.

*Nanomedicine: Nanotechnology, Biology, and Medicine.* 2023; 47

42.

Cerulo L, Pezzella N, Caruso FP, Parente P, Remo A, Giordano G, Forte N, Busselez J, Boschi F, Galiè M, Brunella F, Pancione M. Single-cell proteo-genomic reveals a comprehensive map of centrosome-associated spliceosome components. *SCIENCE* 2023; 26(5):106602.

43.

Andreani C, Bartolacci C, Persico G, Casciaro F, Amatori S, Fanelli M, Giorgio M, Galiè M, Tomassoni D, Wang J, Zhang X, Bick G, Coppari R, Marchini C, Amici A. Sirt6 promotes metastasis and relapse in HER2-positive breast cancer. *Sci Rep* 2023;13(1):22000.



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**Editorial and Commentaries:**

**Galiè M\***, Rigotti G, Sbarbati A. The plasticity of fat: from “civilization syndrome” to “therapeutic promise”.

*Adipocyte* 2006; 2(2):59-66.

\* = Corresponding author

Farace P, **Galiè M**, Nanni C, Spinelli A, Fanti S. Contouring Carcinomas by FDG-PET: Is the Role of Tumor Biology Underestimated?: In Regard to MacManus et al. (Int J Radiat Oncol Biol Phys 2008;71:2-4). *Int J Radiat Oncol Biol Phys.* 2008, 72(1):303-4

**Galiè M\***, Amici A, Sbarbati A. *Cell online comment*: Epithelial-Mesenchymal Transition Generates Cells with Properties of Mesenchymal Stem Cells. In regard to Mani et al. (Cell 2008,133(4):704-15).

\* = Corresponding author

**Galiè M\***, Editorial: The Roles of Oncogenic Phosphatase/Kinase in Tumors. *Frontiers in Cell and Developmental Biology* 2022 (10).

\* = Corresponding author

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**Capitoli di libro:**

**Sbarbati A** and **Galiè M.**

*Fat Injection: From Filling to Regeneration*

In: *Fat Injection: From Filling to Regeneration*,  
edited by Drs. Sydney R. Coleman and Riccardo F. Mazzola,  
Quality Medical Publishing, St. Louis., 2008.

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**Ad hoc reviewer per:**

*Cancer Letters* 1  
*Journal of Cellular and Molecular Medicine*  
*Tissue Engineering*  
*British Journal of Cancer*  
*Digestive Diseases and Sciences*  
*Process Biochemistry*  
*Experimental Cell Research*  
*Stem Cell and Development*  
*Breast Cancer Research*  
*Journal of Proteomics*  
*Adipocyte*

**Guest editor per:**

*Frontiers in Cell Biology*