

Curriculum Vitae

Personal Data

Name Francesca Faggioli
Place and Date of birth Ravenna, 11/07/1978
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Education

2013- PhD degree in Molecular Medicine, University of Milan
2004- Practical course of genetic transfer", University of Turin
2003- Exam for professional qualification, University of Ferrara
2002- Degree in Chemical and Pharmaceutical technologies, University of Bologna
(final grade: 110/110 with honors)

Research experience

2017-at present: Tenured Scientist (Ricercatore Terzo livello) IRGB-CNR UOS Milan
Focus: oxidative stress metabolism, DNA damage response and cellular senescence in post-mitotic tissues (heart, liver), in cancer and fibrosis.

2013- 2016:

Researcher, IRGB-CNR UOS Milan c/O Humanitas Research Hospital, Milan, Italy.

Focus: Cellular senescence in chronic inflammatory diseases.

2010-2012:

Post-doctoral fellow, Albert Einstein College of Medicine, NY, USA.

Focus: Aneuploidy in the brain during physiological aging and in progeroid mouse models.

06/2007-12/2007:

Visiting scientist in the Departments of Genetics and Pathology, Genome Imaging Facility (GIF) at the Albert Einstein college of Medicine (NY), USA

Focus: Cytogenetic techniques for chromosomal anomalies detection in post mitotic tissues

2004-2010:

Graduate student at ITB-CNR, Human Genome Section, Milan

Focus: Cell fusion and its role in the process of polyploidization in normal liver.

Grants and Honours:

2004-2010: Fellowships, Consiglio Nazionale delle Ricerche (ITB-CNR)

2014:

- "Scotti fellowship"

- Progetto Invecchiamento, funded by MIUR, (Partner).

Title: "Mouse models of senescence induced by stress and associated with amyloidosis", within Special Project "Invecchiamento: innovazioni tecnologiche e molecolari per un miglioramento della salute dell'anziano".

2015: 5x1000, funded by Humanitas research Hospital, (Partner).

2017: Ricerca Finalizzata 2016 (Fondi 2014-2015), codeGR-2016-02363222 , "The interplay between cellular aging and immune response in human colorectal liver metastasis: senescence as a new prognostic marker?" (Principal Investigator).

List of the peer-reviewed publications (17):

1) Lizier M, Castelli A, Montagna C, Lucchini F, Vezzoni P, **Faggioli F**. World journal of Hepatology, review, World J Hepatol. 2018, 10: 213–221. "Cell fusion in the liver, revisited".

2) **Faggioli F***, Palagano E, Di Tommaso L, Donadon M, Marrella V, Recordati C, Mantero S, Villa A, Vezzoni P, Cassani B. Hepatology, 2017, doi: 10.1002/hep.29636. "B lymphocytes limit senescence-driven fibrosis resolution and favor hepatocarcinogenesis in mouse liver injury". ***Co-corresponding author.**

- 3) Andriani GA, Almeida VP, **Faggioli F**, Mauro M, Tsai WL, Santambrogio L, Maslov A, Gadina M, Campisi J, Vijg J, Montagna C. *Sci Rep*. 2016, 6:35218. "Whole Chromosome Instability induces senescence and promotes SASP".
- 4) Andriani GA, **Faggioli F**, Baker D, Dollé ME, Sellers RS, Hébert JM, Van Steeg H, Hoeijmakers J, Vijg J, Montagna C. *Hum Mol Genet*. 2016, 25:755-765, "Whole chromosome aneuploidy in the brain of Bub1bH/H and Ercc1- Δ 7 mice".
- 5) Paulis M, Castelli A, Susani L, Lizier M, Lagutina I, Focarelli ML, Recordati C, Uva P, **Faggioli F**, Neri T, Scanziani E, Galli C, Lucchini F, Villa A, Vezzoni P. *Oncotarget*. 2015, 6:35218-35230, "Chromosome transplantation as a novel approach for correcting complex genomic disorders".
- 6) Neri T, Muggeo S, Paulis M, Caldana ME, Crisafulli L, Strina D, Focarelli ML, **Faggioli F**, Recordati C, Scaramuzza S, Scanziani E, Mantero S, Buracchi C, Sobacchi C, Lombardo A, Naldini L, Vezzoni P, Villa A, Ficara F. *Stem Cell Reports*. 2015, 5:558-568, "Targeted Gene Correction in Osteopetrotic-Induced Pluripotent Stem Cells for the Generation of Functional Osteoclasts".
- 7) **Faggioli F**, Vijg J, Montagna C. *Methods Mol Biol*. 2014, 1136:291-305, "Four-color FISH for the detection of low-level aneuploidy in interphase cells".
- 8) **Faggioli F**, Wang T, Vijg J, Montagna C. *Hum Mol Genet*. 2012, 21:5246-5253, "Chromosome-specific accumulation of aneuploidy in the aging mouse brain".
- 9) **Faggioli F**, Vezzoni P, Montagna C. *PLoS One*. 6(10):e26080, 2011, "Single-cell analysis of ploidy and centrosomes underscores the peculiarity of normal hepatocytes".
- 10) **Faggioli F**, Vijg J, Montagna C. *Mech Ageing Dev*. 2011,132:429-436, "Chromosomal aneuploidy in the aging brain", Review.
- 11) **Faggioli F**, Sacco MG, Susani L, Montagna C, Vezzoni P, *Hepatology* 2008, 48:1655-1664, "Cell fusion is a physiological process in mouse liver".
- 12) Bombelli C, **Faggioli F**, Luciani P, Mancini G, Sacco MG, *J Med Chem*. 2007, 50:6274-6278, "PEGylated lipoplexes: preparation protocols affecting DNA condensation and cell transfection efficiency".
- 13) **Faggioli F**, Soldati S, Scanziani E, Mira Catò E, Adorni F, Noonan DM, Vezzoni P, Sacco MG., *Breast Cancer Res Treat*. 2008, 110:223-226, "Effects of IL- 12 gene therapy on spontaneous transgenic and transplanted breast tumors".
- 14) Sacco MG, **Faggioli F**, Soldati S, Gribaldo L, Collotta A, Pariselli F, Malerba I, Musio A, Montagna C, Mira Catò E and Vezzoni P, *Cell Proliferation* 2006, 39: 611-622, "Establishment and characterisation of new mammary adenocarcinoma cell lines derived from double transgenic mice expressing GFP and *neu* oncogene".
- 15) Frattini A, Blair H, Sacco MG, Cerisoli F, **Faggioli F**, Mira Catò E, Pangrazio A, Musio A, Rucci F, Sobacchi C, Sharrow A, Kalla S, Bruzzone MG, Magli MC, Vezzoni P and Villa, *Proc Natl Acad Sci USA* 2005, 102:14629-14634, "Rescue of ATPa-3-deficient murine malignant osteopetrosis by hematopoietic stem cell transplantation in Utero".
- 16) Bombelli C, **Faggioli F**, Luciani P, Mancini G, Sacco MG, *J Med Chem*. 2005, 48:5378-5382, "Efficient transfection of DNA by liposomes formulated with cationic gemini amphiphile".
- 17) Bombelli C, Borocci S, Diociaiuti M, **Faggioli F**, Galantini L, Luciani P, Mancini G, Sacco MG, *Langmuir* 2005, 21:10271-10274, "Role of the Spacer of Cationic Gemini Amphiphiles in the Condensation of DNA".

Abstracts and meetings:

- 7th edition Mml "Milan meets Immunology"

14.02.2017 Milan, Italy (Oral presentation).

-2015 ICSA Conference "Cell Senescence: From Physiology to Pathology":

19-22/07/2015 Santiago de Compostela, Spain (Poster)

-IX national conference of the Italian society of Immunology, clinical immunology and allergology:

28-31.05.2014, Florence, Italy (Oral presentation)

-3d International Conference on Genetics of Aging and Longevity:

6-10.04.2014 , Sochi, Russia (Poster)

-Aging and the Immune System:

Satellite meeting –SM3-20-21.08.2013

-Cold Spring Harbor meetings:

Molecular genetics and Aging. 9-13.10.2010, NY (Poster)

-Eurostell workshop:

Exploring chromatin in stem cells. 22-24.01.07, Montpellier

“Cell fusion is a physiological process in mouse liver” Faggioli F, Susani L, Sacco MG, Focarelli L, Musio A, Vezzoni P. (Poster)

-Eurostell workshop:

“General biology of stem cell systems”. 19-21.03.06, Venice

“ Does fusion play a role in normal liver?”, Faggioli F, Sacco MG, Casado J and Vezzoni P. (Poster)

-“XLVI International Congress of Italian Cancer Society”, 24-27.10.04 Pisa

“ Angio-immune-prevention studies in in MMTV-neu transgenic mice”, Faggioli F, Soldati S, Mira Catò E, Riccardi E, Noonan D, Sacco MG and Vezzoni P. (Poster)

Editorial activities: Ad-hoc reviewer for Mech Ageing Dev.