

Fabio Marongiu

Curriculum Vitae

Personal Information

Name	Fabio Marongiu
Work Address	Università degli Studi di Cagliari Dipartimento di Scienze Biomediche Cittadella Universitaria di Monserrato Blocco A, Piano 1, Stanza 21 SP 8 Km 0,7 - 09048 Monserrato (CA)
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Biosketch

Fabio Marongiu is an Associate Professor at the University of Cagliari. In 2003 he graduated with highest honors with an MS in Biological Sciences from University of Cagliari, and in 2007 he obtained his PhD from the same Institute in Chemotherapy of Viral Infections. In 2007 he was granted a fellowship for a 2-year post-doc at the University of Pittsburgh (USA) in the Department of Pathology under the supervision of Prof. Stephen Strom. The main topic of his research was the isolation, culture and characterization of human amnion-derived stem cells and their differentiation into liver cells. He still has an active line of research on the use of placental stem cells in regenerative medicine. In the last decade, his research interest was also focused on the role of tissue microenvironment in the development and progression of cancer, with particular regards to aging, and how to modulate it through dietary interventions. He is also currently conducting a research project in collaboration with Prof. James DeGregori at the University of Colorado (USA) focusing on the role of the microbiota and increased gut permeability in aging and age-related diseases, including cancer.

He has authored over 60 peer reviewed articles in international Journals, several book chapters and contributions in international conferences, 7 of which were awarded for best presentation.
H-index: 25 (Scopus), 29 (Scholar) – Total Citations: 3370 (Scopus), 4932 (Scholar).

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Present Appointments

Associate Professor of General Pathology and Immunology (06/A2 – MED/04)
University of Cagliari, Italy – Department of Biomedical Sciences (since September 2022)

Education and Training

November 2003 to January 2007

Ph.D. in “Chemotherapy of Viral Infections”

University of Cagliari – Department of Biomedical Sciences and Technologies – Section of General Microbiology and Virology and Microbial Biotechnologies

Thesis subject: Identification of New Broad-Spectrum Inhibitors of RNA Viruses: SAR, Target and Mode of Action

November 2003 – April 2004

Laboratoires Idenix Sarl – Monserrato

Training in Pharmaceutical Company

Screening of antiviral activity of synthetic compounds in cell cultures systems

November 2003

Abilitazione all’esercizio della professione di Biologo

1998-2003

Laurea (master’s) degree in Biological Sciences

University of Cagliari – Department of Biomedical Sciences and Technologies – Section of General Microbiology and Virology and Microbial Biotechnologies

Thesis subject: Mechanism of Action of New Antiviral Agents Active in Early and Late Phases in the HIV-1 Replication Cycle

Summa cum laude

Research Experience

September 2022 to date

Associate Professor (06/A2 – MED/04)

University of Cagliari – Department of Biomedical Sciences – Unit of Experimental Medicine

Research Subject: Development of regenerative medicine applications with placental stem cells; Mutational landscapes in aged tissue and in the context of exposures; Eating patterns and tumor promotion.

November 2019 to July 2022

Visiting Research Associate

University of Colorado, USA – Anschutz Medical Campus, Dept. of Biochemistry and Molecular Genetics

Research Subject: The role of the aged microbiome in the in the pathogenesis of cancer; Mutational landscapes and the role of the aged tissue microenvironment in promoting adaptive oncogenesis.

September 2019 to August 2022

Assistant Professor (Ricercatore a tempo determinato di tipo B - 06/A2 – MED/04)

University of Cagliari – Department of Biomedical Sciences – Unit of Experimental Medicine

Research Subject: Characterization of human amniotic stem cells and their secretome for regenerative medicine applications; The role of altered tissue pattern formation in the pathogenesis of cancer; Tissue microenvironment, aging and cancer formation.

October 2015 to August 2019

Assistant Professor (Ricercatore a tempo determinato di tipo A - 06/A2 – MED/05)

University of Cagliari – Department of Biomedical Sciences – Unit of Experimental Medicine

Research Subject: Differentiation and application of human amniotic stem cells for the treatment of liver disease; The role of tissue microenvironment in liver carcinogenesis: focus on aging and senescence

May 2014 to September 2015

Post-Doctoral Associate

University of Cagliari – Department of Biomedical Sciences – Unit of Experimental Medicine

Research Subject: Aging and cellular senescence: the role of the microenvironment in liver carcinogenesis
November to December 2014
Visiting Scientist
University College of London – Institute for Liver and Digestive Health
Research Activity: Isolation and culture of hepatic stellate cells

March 2011 to April 2014
Post-Doctoral Associate
University of Cagliari – Department of Biomedical Sciences – Unit of Experimental Medicine
Research Subject: Cell Competition, cell senescence and clonal growth in models of liver repopulation;
Mechanisms of tumor progression.

March 2009 to March 2011
Post-Doctoral Associate (Progetto “Master and Back” – Regione Sardegna)
University of Cagliari – Department of Biomedical Sciences and Technologies – Section of Experimental Pathology
Research Subject: New strategies for massive repopulation of the liver by hepatocyte transplantation: possible application for gene and cell therapy; Bioartificial Livers; Aging, cell senescence and clonal growth: mechanisms of tumor progression.

February 2007 to March 2009
Post-Doctoral Research Scholar (Progetto “Master and Back” – Regione Sardegna)
Research Subject: Differentiation of human amniotic stem cells to liver cells; Fetal and adult hepatocyte isolation and transplantation in animal models
University of Pittsburgh USA – Department of Pathology - School of Medicine

Teaching Experience

A.A. 2022-2023 to date
University of Cagliari – Faculty of Biology and Pharmacy – Master Course of Advanced Cellular Studies
Professor for the Course of “Cellular and Molecular Bases of Cancer and Tissue Regeneration”

A.A. 2022-2023 to date
University of Cagliari – Faculty of Biology and Pharmacy – Bachelor Course of Pharmaceutical Biotechnologies
Professor for the Course of “General Pathology and Immunology” – Integrated Course of “General Pathology and Pharmacology of Biotechnological Drugs”

A.A. 2016-2017 to date
University of Cagliari – Faculty of Medicine and Surgery – Course of Medicine and Surgery
Professor for the Course of “Immunology” – Integrated Course of “General Microbiology and Immunology”

A.A. 2016-2017
University of Cagliari – Faculty of Medicine and Surgery – Course of Obstetrics
Professor for the Course of “Clinical Pathology”

A.A. 2015-2016
University of Cagliari – Faculty of Medicine and Surgery – Course of Biomedical Laboratory Techniques
Professor for the Course of “General Pathology and Pathophysiology”

November to December 2014
Visiting Lecturer
University College of London – Institute for Liver and Digestive Health
Placental stem cells as a therapy for liver disease

A.A. 2011-2012 / 2012-2013

University of Cagliari – Faculty of Medicine and Surgery – Course of Biomedical Laboratory Techniques
Lecturer (docente a contratto) for the Course of “General Pathology and Pathophysiology”
A.A. 2010-2011

University of Cagliari – Faculty of Medicine and Surgery – Course of Biomedical Laboratory Techniques
Lecturer (docente a contratto) for the Course of “General Pathology”

A.A. 2009-2010

University of Cagliari – Faculty of Medicine and Surgery – Course of Medicine and Surgery
Tutor for the course of “Pathology and Pathophysiology”

A.A. 2003-2004

University of Cagliari – Faculty of Mathematics, Physics and Natural Sciences – Course of Experimental
Biology, Tutor for the course of “Immunology and Laboratory applications”

Other Experience and Professional Memberships

2009-	Secretary, International Placenta Stem Cell Society (IPLASS)
2007-	Council Member, Cell Transplantation and Regenerative Medicine Society (CTRMS)
2012-	Member, European Association for the Study of Liver (EASL)
2017-	Member, Stem Cell Research Italy (SCR)
2007-2009	Member, International Society for Stem Cell Research (ISSCR)
2007-2010	Member, American Association for the Study of Liver Disease (AASLD)
2014-	Editorial Board Member for Frontiers in Medicine Journal - Gastroenterology

Individual Grants and Contribution to Research Projects

FdS 2022 (Bank of Sardinia Foundation) Study of the differentiative potential of PLAcenTa-DErived Stem cells for retinal Regeneration (PLADES-R Study) [2022-2024]
Role: Co-Investigator (Level of involvement: HIGH)

PRIN 2017 (Italian Ministry of Education, University and Research) Immunomodulatory properties of the Amniotic Stromal cell SEcretome: from Multi-omics profiling to nanotechnoLogy-aided delivery for controlled release in osteoarthritis [Acronym ASSEMBLe] [2019-2022]
Role: Unit Leader (Level of involvement: HIGH)

FdS 2018 (Bank of Sardinia Foundation) Regenerative medicine for the management of chronic liver disease [2019-2021]
Role: Principal Investigator (Level of involvement: HIGH)

COST (European Cooperation in Science and Technology) CA17116 – SPRINT: International Network for Translating Research on Perinatal Derivatives into Therapeutic Approaches [2018-2022]
Role: MC Substitute Involved in Working group 1 and 5 activities (Level of involvement: HIGH)

AIRC (Italian Association for Cancer Research) IG 14640: Aging and cell senescence: the contribution of the microenvironment in liver carcinogenesis [2014-2017]
Role: Co-Investigator (Level of involvement: HIGH)

RAS (Sardinia Regional Government): Cell Therapy of the liver: Strategies for the differentiation of placental cells into hepatocytes. [2010-2013]
Role: Co-Investigator (Level of involvement: HIGH)

AIRC (Italian Association for Cancer Research) IG 10604: Cell competition in carcinogenesis: can cell transplantation modulate a neoplastic-prone microenvironment? [2011-2013].
Role: Co-Investigator (Level of involvement: HIGH)

AIRC (Italian Association for Cancer Research) MFAG. 4927: Why do normal and nodular hepatocytes have a different growth pattern? A study on the molecular bases [2009-2010].
Role: Research Team Member (Level of involvement: MEDIUM)

International Acknowledgments

- 2016 International Placenta Stem Cell Society (IPLASS) 3rd place Oral Presentation Award at 4th IPLASS Meeting, Riyadh
- 2015 Cell Transplant Society - The Transplantation Society Scientific Award for the excellence of abstract, IPITA-IXA-CTS Joint Congress, Melbourne, Australia
- 2014 International Placenta Stem Cell Society (IPLASS) Poster Presentation Award at 3rd IPLASS Meeting, Granada
- 2014 European Association for the Study of Liver (EASL) bursary for selected young investigator presentation at the International Liver Congress, London
- 2012 European Association for the Study of Liver (EASL) bursary for selected young investigator presentation at the International Liver Congress, Barcelona
- 2012 International Placenta Stem Cell Society (IPLASS) Oral Presentation Award at 2nd IPLASS Meeting, Vienna
- 2008 19th Annual Pathology Research Day, 1st place Basic Research presentation, University of Pittsburgh, Pennsylvania
- 2007 Excellence in Teaching at "Frontiers in Human Embryonic Stem Cells, advanced lab course" at "McGowan Institute for Regenerative Medicine", Pittsburgh, PA USA

Scientific Publications

* Equal contribution

1. Malakmahmoudi N, Pisu R, Laconi E, **Marongiu F**. *Dietary Rhythms and MASLD-Related Hepatocellular Carcinoma*. *Cancers*, 2024, 16(20), 3481
2. **Marongiu F**, Cheri S, Laconi E. *Clones of aging: When better fitness can be dangerous*. *Eur J Cell Biol*. 2023 Jul 6;102(3):151340.
3. Hill W, Lim EL, Weeden CE, Lee C, Augustine M, Chen K, Kuan FC, **Marongiu F**, Evans EJ et al. *Lung adenocarcinoma promotion by air pollutants*. *Nature*. 2023 Apr;616(7955):159-167
4. **Marongiu F**, DeGregori J. *The sculpting of somatic mutational landscapes by evolutionary forces and their impacts on aging-related disease*. *Mol Oncol*, 2022, 16(18), pp. 3238–3258
5. Palomba A, Tanca A, Abbondio M, Sau R, Serra M, **Marongiu F**, Fraumene C, Pagnozzi D, Laconi E, Uzzau S. *Time-restricted feeding induces Lactobacillus- and Akkermansia-specific functional changes in the rat fecal microbiota*. *Biofilms and Microbiomes*, 2021, 7(1), 85
6. **Marongiu F**, Cheri S, Laconi E. *Cell competition, cooperation, and cancer*. *Neoplasia*, 2021, 23(10), pp. 1029–1036
7. Laconi E, Cheri S, Fanti M, **Marongiu F**. *Aging and cancer: The waning of community bonds*. *Cells*, 2021, 10(9), 2269
8. Serra M, **Marongiu F**, E Laconi. *Long-term moderate caloric restriction and social isolation synergize to induce anorexia-like behavior in rats*. *Nutrition*, 2021, 86, 111177
9. **Marongiu F**, Laconi E. *Cell competition in liver carcinogenesis*. *World J Hepatol*. 2020 Aug 27;12(8):475-484.
10. Passaretta F, Bosco D, Centurione L, Centurione MA, **Marongiu F***, Di Pietro R*. *Differential response to hepatic differentiation stimuli of amniotic epithelial cells isolated from four regions of the amniotic membrane*. *J Cell Mol Med*. 2020 Apr;24(7):4350-4355.
11. Laconi E, **Marongiu F**, DeGregori J. *Cancer as a disease of old age: changing mutational and microenvironmental landscapes*. *Br J Cancer*. 2020 Mar;122(7):943-952.
12. Gensous N, Ravaioli F, Pirazzini C, Gramignoli R, Ellis E, Storci G, Capri M, Strom S, Laconi E, Franceschi C, Garagnani P, **Marongiu F***, Bacalini MG*. *Aging and Caloric Restriction Modulate the DNA Methylation Profile of the Ribosomal RNA Locus in Human and Rat Liver*. *Nutrients*. 2020 Jan 21;12(2):277
13. **Marongiu F**, Serra M, Laconi E. *Eating habits and their impact on aging and cancer*. Book Chapter. *Food Chemistry, Function and Analysis*, 2020, 2020-January(21), pp. 230-260
14. Abbondio M, Palomba A, Tanca A, Fraumene C, Pagnozzi D, Serra M, **Marongiu F**, Laconi E, Uzzau S. *Fecal Metaproteomic Analysis Reveals Unique Changes of the Gut Microbiome Functions After Consumption of Sourdough Carasau Bread*. *Front Microbiol*. 2019 Jul 30;10:1733.
15. Serra M*, **Marongiu F***, Pisu MG, Serra M, Laconi E. *Time-restricted feeding delays the emergence of the age-associated, neoplastic-prone tissue landscape*. *Aging*, 2019; 11(11):3851-3863
16. Tanca A, Abbondio M, Palomba A, Fraumene C, **Marongiu F**, Serra M, Pagnozzi D, Laconi E, Uzzau S. *Caloric restriction promotes functional changes involving short-chain fatty acid biosynthesis in the rat gut microbiota*. *Scientific Reports*, 2018 8(1),14778

17. **Marongiu F**, Serra M, Laconi E. *Development versus Evolution in Cancer Biology*. Trends in Cancer. 2018 May;4(5):342-348
18. Serra M, Marongiu M, Contini A, Miki T, Cadoni E, Laconi E, **Marongiu F**. *Evidence of Amniotic Epithelial Cell Differentiation toward Hepatic Sinusoidal Endothelial Cells*. Cell Transplant. 2018 Jan;27(1):23-30
19. Fraumene C, Manghina V, Cadoni E, **Marongiu F**, Abbondio M, Serra M, Palomba A, Tanca A, Laconi E, Uzzau S. *Caloric restriction promotes rapid expansion and long-lasting increase of Lactobacillus in the rat fecal microbiota*. Gut Microbes. 2018. 9(2), pp. 104-114
20. **Marongiu F**, Serra MP, Fanti M, Cadoni E, Serra M, Laconi E. *Regenerative Medicine: Shedding Light on the Link between Aging and Cancer*. Cell Transplant. 2017 Sep;26(9):1530-1537.
21. Murgia A, Caboni P, Cadoni E, Serra M, **Marongiu F**, Laconi E. *A GC-MS untargeted metabolomics analysis in the plasma and liver of rats lacking dipeptidyl-peptidase type IV enzyme activity*. J Physiol Biochem. 2017 Nov;73(4):575-582.
22. Cadoni E, **Marongiu F**, Fanti M, Serra M, Laconi E. *Caloric restriction delays early phases of carcinogenesis via effects on the tissue microenvironment*. Oncotarget. 2017 May 30;8(22):36020-36032.
23. Fanti M, Gramignoli R, Serra M, Cadoni E, Strom SC, **Marongiu F**. *Differentiation of amniotic epithelial cells into various liver cell types and potential therapeutic applications*. Placenta. 2017 Nov 59:139-145.
24. **Marongiu F**, Marongiu M, Contini A, Serra M, Cadoni E, Murgia R, Laconi E. *Hyperplasia vs hypertrophy in tissue regeneration after extensive liver resection*. World J Gastroenterol. 2017 Mar 14;23(10):1764-1770.
25. **Marongiu F**, Serra MP, Doratiotto S, Sini M, Fanti M, Cadoni E, Serra M, Laconi E. *Aging promotes neoplastic disease through effects on the tissue microenvironment*. Aging (Albany NY). 2016 Dec 6;8(12):3390-3399.
26. Gramignoli R, **Marongiu F**, Strom SC. *Use of amnion epithelial cells in metabolic liver disorders*. Placenta: The Tree of Life (O. Parolini, ed.), 2016, p143-160;
27. Hansel MC, Davila JC, Vosough M, Gramignoli R, Skvorak KJ, Dorko K, **Marongiu F**, Blake W, Strom SC. *The Use of Induced Pluripotent Stem Cells for the Study and Treatment of Liver Diseases*, Current Protocols in Toxicology, 2016, 14.13. 1-14.13. 27;
28. Jahouh F, **Marongiu F**, Serra MP, Laconi E, Banoub J. *Gas-phase fragmentation of the N-oxide and N-hydroxylated derivatives of retrorsine using liquid chromatography/electrospray ionization quadrupole time-of-flight tandem mass spectrometry*. Rapid Commun Mass Spectrom. 2015 Oct 15;29(19):1733-48;
29. Casey SC, Vaccari M, Al-Mulla F, Al-Temaimi R, Amedei A, Barcellos-Hoff MH, Brown DG, Chapellier M, Christopher J, Curran C, Forte S, Hamid RA, Heneberg P, Koch DC, Krishnakumar PK, Laconi E, Maguer-Satta V, **Marongiu F** et al.. *The effect of environmental chemicals on the tumor microenvironment*. Carcinogenesis, 2015, Vol. 36, Supplement 1, S160–S183;
30. Goodson WH, Lowe L, Carpenter DO, Gilbertson M, Ali AM, [...] **Marongiu F**, Al-Mulla F, Chiaradonna F, [...] D'Abronzo LS, Lin LT. *Assessing the carcinogenic potential of low-dose exposures to chemical mixtures in the environment: the challenge ahead*. Carcinogenesis, 2015, Vol. 36, Supplement 1, S254–S296;
31. **Marongiu F**, Serra MP, Laconi E. *Oxidative Mechanisms in Liver Senescence and Regeneration* Studies on Hepatic Disorders, Albano E, Parola M Editors. 2015 p65-95;
32. Marongiu M, Serra MP, Contini A, Sini M, Strom SC, Laconi E, **Marongiu F**. *Rat-Derived Amniotic Epithelial Cells Differentiate Into Mature Hepatocytes In Vivo With No Evidence Of Cell Fusion*. Stem Cells Dev. 2015 Jun 15;24(12):1429-35.
33. Serra MP*, **Marongiu F***, Marongiu M, Contini A, Laconi E. *Cell-Autonomous Decrease in Proliferative Competitiveness of the Aged Hepatocyte*. J Hepatol. 2015 Jun;62(6):1341-8;
34. Hansel MC, Gramignoli R, Skvorak KJ, Dorko K, **Marongiu F**, Blake W, Davila J, Strom SC. *The history and use of human hepatocytes for the treatment of liver diseases: the first 100 patients*. Curr Protoc Toxicol. 2014 Nov 6;62:14.12.1-14.12.23.
35. **Marongiu F**, Serra MP, Sini M, Angius F, Laconi E. *Cleareance of Senescent hepatocytes in a neoplastic-prone microenvironment delays the emergence of hepatocellular carcinoma*. Aging, 2014 Jan;6(1):26-34,
36. **Marongiu F**, Serra MP, Sini M, Marongiu M, Contin A, Laconi E. *Cell turnover in the repopulated rat liver: distinct lineages for hepatocytes and the biliary epithelium*. Cell Tissue Res. 2014 May;356(2):333-40,
37. Serra MP, **Marongiu F**, Sini M, Marongiu M, Contini A, Wolff H, Rave-Fraenk M, Krause P, Laconi E, Koenig S. *Hepatocyte senescence induced by radiation and partial hepatectomy in rat liver*. Int J Radiat Biol. 2014 Oct; 90(10):876-83.,
38. Strom SC, Skvorak KJ, Gramignoli R, **Marongiu F**, Miki T. *Translation of Amnion Stem cells to the Clinic*. Stem Cells and Development. 2013; 22(S1): 96-102.
39. Skvorak KJ, Dorko K, **Marongiu F**, Tahan V, Hansel MC, Gramignoli R, Arning E, Bottiglieri T, Gibson KM, Strom SC. *Improved Amino Acid, Bioenergetic Metabolite and Neurotransmitter Profiles following Human Amnion Epithelial Cell Transplant in Intermediate Maple Syrup Urine Disease Mice*. Mol Genet Metab. 2013 Jun;109(2):132-8.

40. Skvorak KJ, Dorko K, **Marongiu F**, Tahan V, Hansel MC, Gramignoli R, Gibson KM, Strom SC *Placental stem cell correction of murine intermediate maple syrup urine disease*. Hepatology. 2013 Mar;57(3):1017-23.
41. **Marongiu F**, Serra MP, Sini M, Laconi E, Hansel MC, Skvorak KJ, Gramignoli R, Strom SC. *Advances and Possible Applications of Human Amnion for the Management of Liver Disease*. Perinatal Stem Cells, Second Edition, Cetrulo C.L, Cetrulo K.J., Taghizadeh R.R. 2013; 13:197-208 John Wiley & Sons, Inc., Hoboken, NJ, USA;
42. **Marongiu F**, Doratiotto S, Sini M, Serra MP, Laconi E. *Cancer as a disease of tissue pattern formation*. Prog Histochem Cytochem. 2012 Oct;47(3):175-207;
43. Serra MP*, **Marongiu F***, Sini M, Laconi E. *Hepatocyte senescence in vivo following preconditioning for liver repopulation*. Hepatology, 2012 Aug;56(2):760-8;
44. Gramignoli R, Green ML, Tahan V, Dorko K, Skvorak KJ, **Marongiu F**, Zao W, Venkataramanan R, Ellis EC, Geller D, Breite AG, Dwulet FE, McCarthy RC, Strom SC. *Development and application of purified tissue dissociation enzyme mixtures for human hepatocyte isolation*. Cell Transplant. 2012;21(6):1245-60;
45. **Marongiu F**, Gramignoli R, Dorko K, Miki T, Ranade AR, Serra MP, Doratiotto S, Sini M, Sharma S, Mitamura K, Sellaro TL, Tahan V, Skvorak KJ, Ellis ECS, Badylak SF, Davila JC, Hines R, Laconi E, Strom SC. *Hepatic Differentiation of Amniotic Epithelial Cells*. Hepatology, 2011 May, 53(5):1719-29;
46. Alison M, **Marongiu F**, Laconi E. *Transplanted hepatocytes: wiped out or washed out?* J Hepat, 2012 Apr;56(4):996-7;
47. Doratiotto S, Krause P, Serra MP, **Marongiu F**, Sini M, Koenig S, Laconi E. *The growth pattern of transplanted normal and nodular hepatocytes*. Histochem Cell Biol. 2011 Jun;135(6):581-91;
48. Serra MP, Doratiotto S, **Marongiu F**, Laconi E. *Normal hepatocyte transplantation delays the emergence of chemically-induced pre-neoplastic nodules in rat liver*. Cell Transplantation 2012;21(4):671-7;
49. Skvorak KJ, Gramignoli R, Hansel MC, Uraz S, Tahan V, Dorko K, **Marongiu F**, Strom SC. *Cell Transplantation: A Possible Alternative to Orthotopic Liver Transplant (OLT)*. Liver Transplantation - Technical Issues and Complications; Abdeldayem H. and Allam N.; 2012; Chapter 7: 139-72;
50. **Marongiu F**, Gramignoli R, Sun Q, Tahan V, Miki T, Dorko K, Ellis E, Strom SC. *Isolation of amniotic mesenchymal stem cells*. Curr Protoc Stem Cell Biol. 2010 Mar; Chapter 1:Unit 1E.5.;
51. Tahan G, Gramignoli R, **Marongiu F**, Aktolga S, Cetinkaya A, Tahan V, Dorko K. *Melatonin Expresses Powerful Anti-inflammatory and Antioxidant Activities Resulting in Complete Improvement of Acetic-Acid-Induced Colitis in Rats*. Dig Dis Sci. 2011, 56:715–20;
52. Parolini O, Alviano F, Bergwerf I, Boraschi D, De Bari C, De Waele P, Dominici M, Evangelista M, Falk W, Hennerbichler S, Hess DC, Lanzoni G, Liu B, **Marongiu F** et al.. *Toward cell therapy using placenta-derived cells: disease mechanisms, cell biology, preclinical studies, and regulatory aspects at the round table*. Stem Cells Dev. 2010 Feb;19(2):143-54;
53. **Marongiu F**, Gramignoli R, Miki T, Ranade A, Ellis ECS, Dorko K, Davila J, Strom SC. *Amniotic Epithelial Stem Cells in Regenerative Medicine*. Perinatal Stem Cells, Cetrulo C.L, Cetrulo K.J. 2009; 10:159-67 Wiley-Blackwell;
54. **Marongiu F**, Doratiotto S, Montisci S, Pani P, Laconi E. *Liver repopulation and carcinogenesis: two sides of the same coin?* Am J Pathol. 2008 Apr;172(4):857-64;
55. Skvorak KJ, Paul HS, Dorko K, **Marongiu F**, Ellis E, Chace D, Ferguson C, Gibson KM, Homanics GE, Strom SC. *Hepatocyte Transplantation Improves Phenotype and Extends Survival in a Murine Model of Intermediate Maple Syrup Urine Disease*. Mol Ther. 2009 May 12;
56. Doratiotto S, **Marongiu F**, Faedda S, Pani P, Laconi E. *Altered growth pattern, not altered growth per se, is the hallmark of early lesions preceding cancer development*. Histol Histopathol. 2009 Jan;24(1):101-6;
57. Parolini O, Alviano F, Bagnara GP, Bilic G, Bühring HJ, Evangelista M, Hennerbichler S, Liu B, Magatti M, Mao N, Miki T, **Marongiu F** et al. *Concise review: isolation and characterization of cells from human term placenta: outcome of the first international Workshop on Placenta Derived Stem Cells*. Stem Cells. 2008; 26(2):300-311;
58. Miki T, **Marongiu F**, Ellis E, Dorko K, Strom SC. *Isolation of amniotic epithelial cells*. Current Protocols in Stem Cell Biology 3:1E.3.1-1E.3.9. 2007 – Update 2010 Jan;
59. Miki T, **Marongiu F**, Ellis ECS, Dorko K, Mitamura K, Ranade A, Gramignoli R, Davila J, Strom SC. *Production of Hepatocyte-like Cells from Human Amnion*. Hepatocyte Transplantation: Methods Mol Biol. 2009; 481:155-68 Oxford Press;
60. Tonelli M, Paglietti G, Boido V, Sparatore F, **Marongiu F**, Marongiu E, La Colla P, Loddo R. *Antiviral activity of benzimidazole derivatives. I. Antiviral Activity of 1-substituted-2-[(benzotriazol-1/2-yl)methyl]benzimidazoles*. Chem Biodivers. 2008 Nov;5(11):2386-401; ISSN 1612-1880
61. Mazzei M, Nieddu E, Miele M, Balbi A, Ferrone M, Fermeglia M, Mazzei MT, Pricl S, La Colla P, **Marongiu F**, Ibba C, Loddo R. *Activity of Mannich Bases of 7-Hydroxycoumarin Against Flaviviridae*. Bioorg Med Chem. 2008 Mar 1;16(5):2591-605;

Communications at International Meetings

- 7th IPLASS and CTESS Joint International Conference
19-20 September 2024
Izola, Slovenia
- Marongiu F.** *Investigating the Potential Application of the Amniotic Membrane and Amniotic Epithelial Cells in Ophthalmology: a focus on Retinal Regeneration (Invited Oral)*
- Pisu R, Saponara S, Vitale SG, Angioni S, Peiretti E, **Marongiu F.** *In vitro Differentiation of Amniotic Membrane and Amniotic Epithelial Cells into Retinal Pigment Epithelium (Poster)*
- The 2nd Symposium on Drug Discovery
2-3 July 2024
Taipei, Taiwan
- Marongiu F.** *Cellular and Molecular Bases of Cancer and Tissue Regeneration during aging: elucidating mechanisms and devising strategies for intervention (Invited Oral)*
- IPITA-IXA-CTRMS Joint Congress
26-29 October 2023
San Diego, USA
- Pisu R, Seddone C, Cheri S, Passaretta F, Di Pietro R, Peiretti E, **Marongiu F.** *Exploring the Potential Use of Amniotic Epithelial Cells for the Treatment of Degenerative Diseases of the Retina (Oral)*
- Tolle G, Cheri S, Romele P, Pisu R, Parolini O, Scano P, Caboni P, **Marongiu F.** *Metabolomic and Lipidomic Profiling of the Amniotic Stromal Cell Secretome (Oral)*
- 6th IPLASS Meeting and Final Meeting of the COST Action CA17116
2-3 September 2022
Brescia, Italy
- Seddone C, Cheri S, Malakmahmoudi N, Passaretta F, Di Pietro R, Peiretti E, **Marongiu F.** *Exploring the Potential Use of Amniotic Epithelial Cells for the Treatment of Degenerative Diseases of the Retina (Poster)*
- Tolle G, Cheri S, Romele P, Parolini O, Scano P, Caboni P, **Marongiu F.** *Metabolomic and Lipidomic Profiling of the Amniotic Stromal Cell Secretome (Poster)*
- 16th Congress of the Cell Transplant and Regenerative Medicine Society
21-25 September 2019
Lesvos, Greece
- Marongiu F.** *Cell Senescence as a Driver in Regenerative Medicine (Invited Speaker)*
- 5th IPLASS Meeting International Stem Cell Conference
6-7 September 2018
Bern, Switzerland
- Fanti M, Gramignoli R, Serra M, Laconi E, Strom SC, **Marongiu F.** *Amniotic epithelial cells in liver regeneration (Invited speaker)*
- 2017 CST-CTRMS Joint Scientific Meeting
25-29 September 2017
Halifax, Canada
- Passaretta F, Centurione L, Centurione MA, Di Pietro R, **Marongiu F.** *Differential response to hepatic differentiation stimuli of Amniotic Epithelial Cells isolated from four regions of the Amniotic Membrane (Oral)*
- 3rd Stem Cells Conference
4th IPLASS Meeting
19-21 September 2016
Riyadh, Saudi Arabia
- Marongiu M, Fanti M, Contini A, Cadoni E, Laconi E, **Marongiu F.** *In vivo differentiation of Amniotic Epithelial Cells into hepatic sinusoidal endothelial cells (Oral – Winner of the “Selected Oral Presentation Award”)*
- Fanti M, Romele P, Vertua E, Bonassi Signoroni P, Silini A, Parolini O, **Marongiu F.** *hAEC-derived hepatocyte-like cells maintain the ability to inhibit proliferation of activated PBMC (Poster)*

CTS-IPITA-IXA 2015 Joint Conference
15-19 November 2015
Melbourne, Australia

Marongiu M, Contini A, Cadoni E, Laconi E, **Marongiu F**. *Amniotic Epithelial Cells differentiate into hepatic sinusoidal endothelial cells in vivo. (Poster – Winner of the “Selected Poster Presentation Award”)*

Third Bi-annual Meeting of the
International Placenta Stem Cell
Society (IPLASS)
10-12th September, 2014
Granada, Spain

Marongiu M, Contini A, Serra MP, Laconi E and **Marongiu F**. *Rat-Derived Amniotic Epithelial Cells Differentiate Into Mature Hepatocytes In Vivo With No Evidence Of Cell Fusion (Poster – Winner of the “Selected Poster Presentation Award”)*

49th Annual Meeting of the European
Association for the Study of Liver
The International Liver Congress 2014
April 9 – 13, 2014
London, UK

Marongiu F, Contini A, Serra MP, Marongiu M, Sini M, Laconi E. *In vivo Differentiation of Amniotic Epithelial Cells into Mature Hepatocytes: No Evidence of Cell Fusion (Poster – EASL Young Investigator Bursary)*

Serra MP, Marongiu M, Contini A, Sini M, **Marongiu F**, Laconi E. *The Loss of Proliferative Competitiveness Of The Aged Hepatocyte. (Poster – EASL Young Investigator Bursary)*

The 12th Congress of the
Cell Transplant Society
July 1-11, 2013
Milan, Italy

Marongiu F, Serra MP, Sini M, Angius F, Laconi E. *Cell transplantation modulates the liver microenvironment and delays the emergence of hepatocellular carcinoma (Poster)*

Second Bi-annual Meeting of the
International Placenta Stem Cell
Society (IPLASS)
5th September, 2012
Vienna, Austria

Skvorak KJ, Dorko K, **Marongiu F**, Tahan V, Hansel MC, Gramignoli R, Gibson KM, Strom SC. *Human placental stem cell transplant lengthens survival and corrects a murine model of a human metabolic liver disease. (Oral – Winner of the “Selected Oral Presentation Award”)*

Gramignoli R, Hansel MC, **Marongiu F**, Blake WL, Soto-Gutierrez A, Dorko K, Davila JC, Strom SC. *Generation of induced Pluripotent Stem Cells from Amnion Epithelial Cells. (Poster)*

47th Annual Meeting of the European
Association for the Study of Liver
The International Liver Congress 2012
April 18 – 22, 2012
Barcelona, Spain

Marongiu F, Serra MP, Sini M, Laconi E. *Cell senescence in liver repopulation and carcinogenesis (Poster – EASL Young Investigator Bursary)*

Serra MP, Sini M, Marongiu F, Laconi E. *Cell turnover in the repopulated rat liver: evidence against hepatocyte streaming. (Poster)*

Sini M, Serra MP, **Marongiu F**, Laconi E. *The microenvironment of the aged rat liver supports the growth of transplanted hepatocytes isolated from hepatic nodules (Poster)*

61st Annual Meeting of the American
Association for the Study of Liver
Diseases (AASLD 2010)
October 29 – November 2, 2010
Boston, MA USA

Serra MP, **Marongiu F**, Doratiotto S and Laconi E. *Normal hepatocyte transplantation delays liver carcinogenesis (Poster)*

Skvorak KJ, Dorko K, Hansel M, **Marongiu F**, Tahan V, Gibson KM, Sun Q, Bottiglieri T, Arning E, Vockley G, Davila JC, and Strom SC. *Human Amnion Epithelial (hAE) Stem Cell Transplant Improves Disease Phenotype and Survival in the Intermediate Maple Syrup Urine Disease (iMSUD) Mouse Model (Oral)*

First Bi-annual Meeting of the
International Placenta Stem Cell
Society (IPLASS)
3rd-6th October, 2010
Brescia, Italy

Marongiu F, Gramignoli R, Doratiotto S, Serra MP, Sini M, Sharma S, Sellaro TL, Dorko K, Laconi E and Strom SC. *In vitro and in vivo differentiation of Amniotic Epithelial Stem Cells into Hepatocyte-like Cells (Poster)*

8th International Society for Stem Cell
Research (ISSCR) Annual Meeting
June 16-19, 2010
San Francisco, CA – USA

Marongiu F, Miki T, Gramignoli R, Hansel M, Sharma S, Sellaro TL, Dorko K, Ellis ECS, Davila JC and Strom SC. *Bi-potential Differentiation of Human Amniotic Epithelial Stem/Progenitor Cells into Liver Cells (Poster)*

60th Annual Meeting of the American
Association for the Study of Liver
Diseases (AASLD 2009)
October 30 – November 3, 2009
Boston, MA - USA

Gramignoli R, **Marongiu F**, Sharma S, Dorko K, Tahan V, Geller DA, Venkataramanan R, Ellis ECS, Strom S. *A new collagenase/protease preparation for isolation of human hepatocytes for clinical transplantation (Poster)* Hepatology 2009; 50(S4), 646A (729)

The 6th Hepato Gastroenterology
Congress
September 23-27, 2009
Antalya, Turkey

Marongiu F. *Derivation of Hepatocyte-like Cells from Human Amniotic Epithelial Stem Cells and Their Prospective Use in Regenerative Medicine (Invited speaker)*

10th Cell Transplant Society Congress
and 36th Japan Society for Organ
Preservation and Medical Biology
April 20-21, 2009
Okayama, Japan

Marongiu F, Gramignoli R, Sicari BM, Sambamurthy N, Tahan V, Dorko K, Strom SC. *Characterization of Human Amnion-Derived Stem Cells (Oral)*

Marongiu F, Miki T, Ranade A, Mitamura K, Sharma S, Sellaro TL, Dorko K, Ellis ECS, Strom SC. *Hepatocyte Differentiation of Human Amnion-Derived Stem/Progenitor Cells (Oral)*

10th Cell Transplant Society Congress
and 36th Japan Society for Organ
Preservation and Medical Biology
April 20-21, 2009
Okayama, Japan

Marongiu F, Miki T, Sambamurthy N, Ellis ECS, Stolz DB, Lunz III JG, Sellaro TL, Gramignoli R, Demetris AJ, Davila J, Strom SC. *In Vitro Formation of Tubular-Like Structure with Bile Duct Cell Characteristics from Human Amniotic Epithelial Cells (Poster)*

Gramignoli R, **Marongiu F**, Sharma S, Dorko K, Tahan V, Ellis ECS, Geller DA, Venkataramanan R, Strom SC. *Evaluation of human hepatocyte suspensions pre-and post-hypothermic storage for cell-based therapies (Poster)*

Gramignoli R, Green ML, Breite AG, McCarthy RC, **Marongiu F**, Sharma S, Dorko K, Tahan V, Ellis ECS, Geller DA, Venkataramanan R, Fox IJ, Strom SC. *Evaluation of a New Collagenase/Protease Preparation for the Isolation of Human Hepatocytes (Oral)*

Skvorak KJ, Paul HS, Dorko K, **Marongiu F**, Chace D, Ferguson C, Arning E, Bottiglieri T, Jansen EEW, Jakobs C, Gibson KM, Homanics GE, Strom SC. *Hepatocyte Transplantation (HTx) Extends Lifespan, Increases Branched Chain α -Keto Acid Dehydrogenase (BCKDH) Activity, and Improves Neurotransmitter and Blood Amino Acid Profiles in a Murine Model of Intermediate Maple Syrup Urine Disease (iMSUD) (Oral)*

59th Annual Meeting of the American
Association for the Study of Liver
Diseases (AASLD 2008)
October 31 - November 4, 2008
San Francisco, CA USA

Gramignoli R, Ranade A, **Marongiu F**, Dorko K, Ellis ECS, Sharma S, Geller DA, Venkataramanan R, Strom SC. *Rapid evaluation of human hepatocytes for clinical infusion pre-and post hypothermic storage (Poster)* Hepatology 2008 Vol: 48(4) 643A

Ellis CS, **Marongiu F**, Dorko K, Geller DA, Strom SC. *Effect of Bile acids and nuclear hormone receptor agonists on Taurocholate transport in sandwich cultured primary human hepatocytes. (Poster)* Hepatology 2008 Vol: 48(4) 643A

8th International Conference of
Anticancer Research
October 17-22, 2008
Kos, Greece

Doratiotto S, **Marongiu F**, Pani P, Laconi S, Laconi E. *Rate-limiting microenvironments in tumor biology (Oral)* ANTICANCER RESEARCH 2008 Vol: 28(5C) 3364-3365 374

6th International Society for Stem Cell
Research (ISSCR) Annual Meeting
June 11-14, 2008
Philadelphia, PA USA

Marongiu F, Gramignoli R, Strom SC. *Characterization Of Human Amnion-Derived Stem Cells.*

(Poster)

Marongiu F, Ranade A, Mitamura K, Miki T, Sellaro T, Dorko K, Ellis ECS, Strom SC. *Hepatocyte Differentiation Of Human Amnion-Derived Stem/Progenitor Cells. (Poster)*

CTS-IPITA-IXA 2007 Joint Conference
15-20 September 2007
Minneapolis, MN - USA

Ranade A, Mitamura K, Miki T, **Marongiu F**, Ellis E, Strom SC. *Maturation of Human Amnion-Derived Stem/Progenitor Cells in Mouse Liver Following Transplantation. (Oral)* XENOTRANSPLANTATION 2007 Vol: 14(5) 387

Mitamura K, Miki T, Ranade A, **Marongiu F**, Ellis E, Strom SC. *Proliferation and Maturation of Human Fetal Hepatocytes in Mouse Liver Following Transplantation. (Oral)* XENOTRANSPLANTATION 2007 Vol: 14(5) 386

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Cagliari, April 28, 2025