

Curriculum vitae

Informazioni personali

Nome: **Francesca Beretti**

Data di nascita: 23 dicembre 1975

Luogo di nascita: Milano

Posizione attuale

Assunzione a tempo indeterminato presso il Dipartimento Chirurgico, Medico, Odontoiatrico e di Scienze Morfologiche con Interesse Trapiantologico, Oncologico e di Medicina Rigenerativa - Università di Modena e Reggio Emilia con qualifica di **Tecnico Livello C3 -Area Tecnica** (dal novembre 2008).

Educazione

Diploma di maturità scientifica con sperimentazione informatica conseguito presso il Liceo Statale "M. Morandi" di Finale Emilia (MO) nel 1994.

Laurea in Scienze Biologiche conseguita presso l'Università di Modena e Reggio Emilia il 14 luglio 1999; 110/110 + Lode.

Abilitazione all'albo professionale dell'ordine dei Biologi nel dicembre 1999 e iscrizione all'albo dal marzo 2000.

Dottorato di ricerca in Medicina sperimentale presso il Dipartimento Integrato Servizi Diagnostici e di Laboratorio e di Medicina Legale: 2002-2004.

Scuola di specializzazione in Microbiologia e Virologia conseguita presso l'Università di Modena e Reggio Emilia il 1 dicembre 2006- votazione finale: 110/110 + Lode.

Carriera accademica

Borsa di studio sovvenzionata dalla Ditta BAYER S.p.A. presso Laboratorio di Virologia dell'Azienda Ospedaliera di Modena Luglio 2001-gennaio 2002.

Assegno di ricerca S.S.N. MED07-Lab.Virologia: 1 aprile 2005-31 marzo 2006.

Assegno di ricerca S.S.N. BIO17-Dip. Anatomia e Istologia: 1 marzo 2007-28 febbraio 2008.

Borsa di studio di Ricerca e Formazione avanzata S.S.N. BIO17- Dip. Anatomia e Istologia: 1 aprile 2008-31 ottobre 2008.

Pubblicazioni

- 1) Zavatti M, **Beretti F**, Casciaro F, Comitini G, Franchi F, Barbieri V, Bertoni L, De Pol A, La Sala GB, Maraldi T. Development of a novel method for amniotic fluid stem cell storage. *Cytotherapy*. 2017 Aug;19(8):1002-1012. doi: 10.1016/j.jcyt.2017.04.006. Epub 2017 May 29. PubMed PMID: 28571656.
- 2) **Beretti F**, Ardizzoni A, Cermelli C, Guida M, Maraldi T, Pietrosevoli P, Paulone S, De Pol A, Blasi E, Portolani M. Apoptosis and inflammatory response in human astrocytes are induced by a transmissible cytotoxic agent of neurological origin. *New Microbiol*. 2017 Jan;40(1):27-32. Epub 2016 Nov 7. PubMed PMID:27819395.
- 3) Zavatti M, Guida M, Maraldi T, **Beretti F**, Bertoni L, La Sala GB, De Pol A. Estrogen receptor signaling in the ferutinin-induced osteoblastic differentiation of human amniotic fluid stem cells. *Life Sci*. 2016 Nov 1;164:15-22. doi:10.1016/j.lfs.2016.09.005. Epub 2016 Sep 11. PubMed PMID: 27629493.
- 4) Maraldi T, Resca E, Nicoli A, **Beretti F**, Zavatti M, Capodanno F, Morini D, Palomba S, La Sala GB, De Pol A. NADPH oxidase-4 and MATER expressions in granulosa cells: Relationships with ovarian aging. *Life Sci*. 2016 Oct 1;162:108-14. doi: 10.1016/j.lfs.2016.08.007. Epub 2016 Aug 8. PubMed PMID:27515505.
- 5) Maraldi T, Guida M, **Beretti F**, Resca E, Carpino G, Cardinale V, Gentile R, Ardizzoni A, Murgia A, Alvaro D, Gaudio E, De Pol A. Human biliary tree stem/progenitor cells immunomodulation: Role of

- hepatocyte growth factor. *HepatoRes*. 2017 Apr;47(5):465-479. doi: 10.1111/hepr.12772. Epub 2016 Aug 16. PubMed PMID: 27381820.
- 6) Maraldi T, **Beretti F**, Guida M, Zavatti M, De Pol A. Role of hepatocyte growth factor in the immunomodulation potential of amniotic fluid stem cells. *Stem Cells Transl Med*. 2015 Jun;4(6):539-47. doi: 10.5966/sctm.2014-0266. Epub 2015 Apr 14. PubMed PMID: 25873747; PubMed Central PMCID: PMC4449098.
 - 7) Resca E, Zavatti M, Maraldi T, Bertoni L, **Beretti F**, Guida M, La Sala GB, Guillot PV, David AL, Sebire NJ, De Pol A, De Coppi P. Enrichment in c-Kit improved differentiation potential of amniotic membrane progenitor/stem cells. *Placenta*. 2015 Jan;36(1):18-26. doi: 10.1016/j.placenta.2014.11.002. Epub 2014 Nov 11. PubMed PMID: 25468543.
 - 8) Zavatti M, Bertoni L, Maraldi T, Resca E, **Beretti F**, Guida M, La Sala GB, DePol A. Critical-size bone defect repair using amniotic fluid stem cell/collagen constructs: effect of oral ferutinin treatment in rats. *Life Sci*. 2015 Jan 15;121:174-83. doi: 10.1016/j.lfs.2014.10.020. Epub 2014 Nov 5. PubMed PMID:25445219.
 - 9) Gibellini L, Pinti M, **Beretti F**, Pierri CL, Onofrio A, Riccio M, Carnevale G, De Biasi S, Nasi M, Torelli F, Boraldi F, De Pol A, Cossarizza A. Sirtuin 3 interacts with Lon protease and regulates its acetylation status. *Mitochondrion*. 2014 Sep;18:76-81. doi: 10.1016/j.mito.2014.08.001. Epub 2014 Aug 13. PubMed PMID: 25128872.
 - 10) **Beretti F**, Manni P, Longo C, Argenziano G, Farnetani F, Cesinaro AM, Witkowski AM, De Pol A, Pellacani G. CD271 is expressed in melanomas with more aggressive behaviour, with correlation of characteristic morphology by in vivo reflectance confocal microscopy. *Br J Dermatol*. 2015 Mar;172(3):662-8. doi:10.1111/bjd.13301. Epub 2015 Jan 22. PubMed PMID: 25066225.
 - 11) Maraldi T, Bertoni L, Riccio M, Zavatti M, Carnevale G, Resca E, Guida M, **Beretti F**, La Sala GB, De Pol A. Human amniotic fluid stem cells: neural differentiation in vitro and in vivo. *Cell Tissue Res*. 2014 Jul;357(1):1-13. doi:10.1007/s00441-014-1840-x. Epub 2014 May 3. PubMed PMID: 24788911.
 - 12) Guida M, Maraldi T, **Beretti F**, Follo MY, Manzoli L, De Pol A. Nuclear Nox4-derived reactive oxygen species in myelodysplastic syndromes. *Biomed Res Int*. 2014;2014:456937. doi: 10.1155/2014/456937. Epub 2014 Feb 26. PubMed PMID:24719867; PubMed Central PMCID: PMC3955662.
 - 13) Guida M, Maraldi T, Resca E, **Beretti F**, Zavatti M, Bertoni L, La Sala GB, De Pol A. Inhibition of nuclear Nox4 activity by plumbagin: effect on proliferative capacity in human amniotic stem cells. *Oxid Med Cell Longev*. 2013; 2013:680816. doi: 10.1155/2013/680816. Epub 2013 Dec 29. PubMed PMID: 24489986; PubMed Central PMCID: PMC3893878.
 - 14) Maraldi T, Riccio M, Pisciotta A, Zavatti M, Carnevale G, **Beretti F**, La Sala GB, Motta A, De Pol A. Human amniotic fluid-derived and dental pulp-derived stem cells seeded into collagen scaffold repair critical-size bone defects promoting vascularization. *Stem Cell Res Ther*. 2013 May 21;4(3):53. doi: 10.1186/scrt203. PubMed PMID: 23688855; PubMed Central PMCID: PMC3706961.
 - 15) Carnevale G, Riccio M, Pisciotta A, **Beretti F**, Maraldi T, Zavatti M, Cavallini GM, La Sala GB, Ferrari A, De Pol A. In vitro differentiation into insulin-producing β -cells of stem cells isolated from human amniotic fluid and dental pulp. *Dig Liver Dis*. 2013 Aug;45(8):669-76. doi:10.1016/j.dld.2013.02.007. Epub 2013 May 3. PubMed PMID: 23643565.
 - 16) Bertacchini J, **Beretti F**, Cenni V, Guida M, Gibellini F, Mediani L, Marin O, Maraldi NM, de Pol A, Lattanzi G, Cocco L, Marmioli S. The protein kinase Akt/PKB regulates both prelamin A degradation and Lmna gene expression. *FASEB J*. 2013 Jun;27(6):2145-55. doi: 10.1096/fj.12-218214. Epub 2013 Feb 21. PubMed PMID:23430973.
 - 17) Pisciotta A, Riccio M, Carnevale G, **Beretti F**, Gibellini L, Maraldi T, Cavallini GM, Ferrari A, Bruzzesi G, De Pol A. Human serum promotes osteogenic differentiation of human dental pulp stem cells in vitro and in vivo. *PLoS One*. 2012;7(11):e50542. doi: 10.1371/journal.pone.0050542. Epub 2012 Nov 29. PubMed PMID: 23209773; PubMed Central PMCID: PMC3510089.
 - 18) **Beretti F**, Pietrosevoli P, Bartoletti AM, Gerolmini M, Bellei E, Tomasi A, Portolani M. Neutralization by human serum samples of a transmissible agent isolated from the cerebrospinal fluid of neurological patients. *New Microbiol*. 2011 Oct;34(4):345-50. Epub 2011 Oct 31. PubMed PMID: 22143807.

- 19) Guerra D, Ronchetti I, **Beretti F**, Bartoletti AM, Pietrosemoli P, Gelormini MS, Malagolini N, Muscatello U, Portolani M. Electron microscope study on a transmissible cytotoxic factor isolated from cerebrospinal fluid of neurological patients: analysis of its structure and of its effects on various types of cell cultures. *J Clin Pathol*. 2012Jan;65(1):20-8. doi: 10.1136/jclinpath-2011-200034. Epub 2011 Nov 2. PubMed PMID: 22049221.
- 20) Longo C, Casari A, **Beretti F**, Cesinaro AM, Pellacani G. Skin aging: in vivo microscopic assessment of epidermal and dermal changes by means of confocal microscopy. *J Am Acad Dermatol*. 2013 Mar;68(3):e73-82. doi:10.1016/j.jaad.2011.08.021. Epub 2011 Oct 14. PubMed PMID: 22000768.
- 21) Pellacani G, Farnetani F, Gonzalez S, Longo C, Cesinaro AM, Casari A, **Beretti F**, Seidenari S, Gill M. In vivo confocal microscopy for detection and grading of dysplastic nevi: a pilot study. *J Am Acad Dermatol*. 2012 Mar;66(3):e109-21. doi: 10.1016/j.jaad.2011.05.017. Epub 2011 Jul 13. PubMed PMID: 21742408.
- 22) Cenni V, Bavelloni A, **Beretti F**, Tagliavini F, Manzoli L, Lattanzi G, Maraldi NM, Cocco L, Marmioli S. Ankrd2/ARPP is a novel Akt2 specific substrate and regulates myogenic differentiation upon cellular exposure to H₂O₂. *Mol Biol Cell*. 2011 Aug 15;22(16):2946-56. doi: 10.1091/mbc.E10-11-0928. Epub 2011 Jul 7. PubMed PMID: 21737686; PubMed Central PMCID: PMC3154889.
- 23) Longo C, Rito C, **Beretti F**, Cesinaro AM, Piñeiro-Maceira J, Seidenari S, Pellacani G. De novo melanoma and melanoma arising from pre-existing nevus: in vivo morphologic differences as evaluated by confocal microscopy. *J Am Acad Dermatol*. 2011 Sep;65(3):604-14. doi: 10.1016/j.jaad.2010.10.035. Epub 2011 Jun 28. PubMed PMID: 21715047.
- 24) Longo C, Gambarà G, Espina V, Luchini A, Bishop B, Patanarut AS, Petricoin EF 3rd, **Beretti F**, Ferrari B, Garaci E, De Pol A, Pellacani G, Liotta LA. A novel biomarker harvesting nanotechnology identifies Bak as a candidate melanoma biomarker in serum. *Exp Dermatol*. 2011 Jan;20(1):29-34. doi:10.1111/j.1600-0625.2010.01187.x. PubMed PMID: 21158936; PubMed Central PMCID: PMC3777620.
- 25) Casari A, Pellacani G, Seidenari S, Cesinaro AM, **Beretti F**, Pepe P, Longo C. Pigmented nodular Basal cell carcinomas in differential diagnosis with nodular melanomas: confocal microscopy as a reliable tool for in vivo histologic diagnosis. *J Skin Cancer*. 2011;2011:406859. doi: 10.1155/2011/406859. Epub 2010 Oct 14. PubMed PMID: 21151507; PubMed Central PMCID: PMC2989703.
- 26) Marmioli S, Bertacchini J, **Beretti F**, Cenni V, Guida M, De Pol A, Maraldi NM, Lattanzi G. A-type lamins and signaling: the PI 3-kinase/Akt pathway moves forward. *J Cell Physiol*. 2009 Sep;220(3):553-61. doi: 10.1002/jcp.21807. Review. PubMed PMID: 19479937.
- 27) Portolani M, **Beretti F**, Bartoletti AM, Pietrosemoli P, Salvioli S, Franceschi C, Sena P, De Pol A. Propagation of a transmissible cytotoxic activity on cultures of human peripheral blood lymphocytes. *New Microbiol*. 2008 Jul;31(3):417-22. PubMed PMID: 18843898.
- 28) Cenni V, Bertacchini J, **Beretti F**, Lattanzi G, Bavelloni A, Riccio M, Ruzzene M, Marin O, Arrigoni G, Parnaik V, Wehnert M, Maraldi NM, de Pol A, Cocco L, Marmioli S. Lamin A Ser404 is a nuclear target of Akt phosphorylation in C2C12 cells. *J Proteome Res*. 2008 Nov;7(11):4727-35. doi: 10.1021/pr800262g. Epub 2008 Sep 23. PubMed PMID: 18808171.
- 29) **Beretti F**, Cenacchi V, Portolani M, Ardizzoni A, Blasi E, Cermelli C. A transmissible cytotoxic activity isolated from a patient with brain ischemia causes microglial cell activation and dysfunction. *Cell Mol Neurobiol*. 2007 Jun;27(4):517-28. Epub 2007 Mar 23. PubMed PMID: 17380379.
- 30) Portolani M, Pecorari M, Gennari W, **Beretti F**, Sabbatini AM, Casolari C, Rumpianesi F, Cermelli C, Sintini M, Mori F. Case report: primary infection by human herpesvirus 6 variant a with the onset of myelitis. *Herpes*. 2006 Nov;13(3):72-4. PubMed PMID: 17147911.
- 31) **Beretti F**, Pietrosemoli P, Bartoletti AM, Rondini I, Portolani M. Cerebrospinal fluid samples from patients with various neurological disorders have a transmissible cytotoxic activity with similar properties. *New Microbiol*. 2006 Apr;29(2):143-6. PubMed PMID: 16841556.
- 32) Cermelli C, Cenacchi V, **Beretti F**, Pezzini F, Luca DD, Blasi E. Human herpesvirus-6 dysregulates monocyte-mediated anticryptococcal defences. *J Med Microbiol*. 2006 Jun;55(Pt 6):695-702. PubMed PMID: 16687586.

- 33) Portolani M, Tamassia MG, Gennari W, Pecorari M, **Beretti F**, Alù M, Maiorana A, Migaldi M. Post-mortem diagnosis of encephalitis in a 75-year-old man associated with human herpesvirus-6 variant A. *J Med Virol*. 2005 Oct;77(2):244-8. PubMed PMID: 16121375.
- 34) Portolani M, **Beretti F**, Cermelli C, Bartoletti AM, Pietrosevoli P, Bargellini A, De Pol A, Rossini GP. Cell culture isolation of a transmissible cytotoxicity from a human sample of cerebrospinal fluid. *Neurosci Lett*. 2005 Feb 25;375(1):47-52. Epub 2004 Dec 16. PubMed PMID: 15664121.
- 35) Portolani M, Cartelli D, **Beretti F**, Tamassia MG, Gennari W, Pecorari M, Casolari C. Search for viruses in the CSF of patients with acute neurological disorders: possible involvement of beta-and gamma-herpesviruses. *New Microbiol*. 2004 Oct;27(4):329-34. PubMed PMID: 15646046.
- 36) Portolani M, Bartoletti AM, Pietrosevoli P, **Beretti F**, Della Casa Muttini E, Roversi MF, Livio L, Ferrari F. Non-specific febrile illness by Coxsackievirus A16 in a 6-day-old newborn. *Minerva Pediatr*. 2004 Jun;56(3):341-7. English, Italian. PubMed PMID: 15252383.
- 37) Cermelli C, Vinceti M, **Beretti F**, Pietrini V, Nacci G, Pietrosevoli P, Bartoletti A, Guidetti D, Sola P, Bergomi M, Vivoli G, Portolani M. Risk of sporadic amyotrophic lateral sclerosis associated with seropositivity for herpesviruses and echovirus-7. *Eur J Epidemiol*. 2003;18(2):123-7. PubMed PMID: 12733833.
- 38) Portolani M, Sabbatini AM, **Beretti F**, Gennari W, Tamassia MG, Pecorari M. Symptomatic infections by toscana virus in the Modena province in the triennium 1999-2001. *New Microbiol*. 2002 Oct;25(4):485-8. PubMed PMID: 12437229.
- 39) Portolani M, Pecorari M, Gennari W, Sabbatini AM, Meacci M, **Beretti F**, Frigieri G, Bergonzini P. Severe encephalopathy associated with reactivated human herpesvirus 6 in a six year-old immunocompetent child. *Minerva Pediatr*. 2002 Oct;54(5):459-64. English, Italian. PubMed PMID: 12244284.
- 40) Cermelli C, Vinceti M, Scaltriti E, Bazzani E, **Beretti F**, Vivoli G, Portolani M. Selenite inhibition of Coxsackie virus B5 replication: implications on the etiology of Keshan disease. *J Trace Elem Med Biol*. 2002;16(1):41-6. PubMed PMID: 11878751.
- 41) Portolani M, Sabbatini AM, Gennari W, **Beretti F**, Greco G, Santangelo M. Human herpesvirus 8 DNA in the cerebrospinal fluid of a patient with sensory impairment. *New Microbiol*. 2001 Oct;24(4):405-7. PubMed PMID: 11718379.
- 42) Portolani M, Pecorari M, Tamassia MG, Gennari W, **Beretti F**, Guaraldi G. Case of fatal encephalitis by HHV-6 variant A. *J Med Virol*. 2001 Sep;65(1):133-7. PubMed PMID: 11505455.
- 43) Portolani M, Pecorari M, Pietrosevoli P, Bartoletti A, Sabbatini AM, Meacci M, Gennari W, Bazzani E, **Beretti F**, Guaraldi G. Outbreak of aseptic meningitis by echo 4: prevalence of clinical cases among adults. *New Microbiol*. 2001 Jan;24(1):11-5. PubMed PMID: 11209838.