

LUCA FERRETTI – list of publications on scientific journals

1. Ferretti, L., Sgaramella, V. (1981) Studies of the T4 DNA ligase isolated from *E.coli* cells lysogenized with a recombinant T4-lambda phage. In "Transformation 1980", Polsinelli M. and Mazza G. eds., Cotswoold Press, Oxford, p.413-419.
2. Ferretti, L., Sgaramella, V. (1981) Temperature dependance in the joining of flush and cohesive ends produced by restriction endonucleases. Nucl. Acid Res. **9**, 85-93.
3. Ferretti, L., Sgaramella, V. (1981) Specific and reversible inhibition of the blunt-end joining activity of the T4 DNA ligase. Nucl. Acid Res. **9**, 3695-3701.
4. Ferretti, L., Mottes, M., Sgaramella, V. (1984) Possible hyperattenuation in the transcription of the *E.coli hisG* gene cloned in *B.subtilis*. Folia Biologica, Praga, p.29-35.
5. Ferretti, L., Mottes, M., De Fazio, G., Sgaramella, V. (1984) Convergent transcription of the *E.coli hisG* gene cloned in *B.subtilis* stops in the vicinity of the attenuator. Gene **29**, 11-19.
6. Buvoli, M., Ferretti, L., Damiani, G., Mottes, M., Sgaramella, V. (1986) Heterologous gene expression in *B.subtilis*. In vitro removal of the attenuator region of the *his* operon of *E.coli* allows progress of transcription into the adjacent *hisG* gene and its expression in *B.subtilis* cells. In "Macromolecules in the functioning cell", edizioni Pushchino, p.48-55.
7. Oprian, D.D., Nassal, M., Ferretti, L., Karnik, S.S., Khorana, H.G. (1986) Design and total synthesis of a gene for bovine rhodopsin. In "Protein Engineering: Applications in Science, Medicine and Industry" Inouye, M., Sarma, R., eds., Academic Press, Orlando, Florida, USA, p.111-123.
8. Buvoli, M., Damiani, G., Ferretti, L., Testori, A., Sgaramella, V. (1986) Heterologous expression in *B.subtilis*. II: in vitro removal of the attenuator sequence of the *E.coli his* operon allows expression in *B.subtilis* of the cloned *hisG* gene. Gene **47**, 279-286.
9. Ferretti, L., Karnik, S.S., Khorana, H.G., Nassal, M., Oprian, D.D. (1986) Total synthesis of a gene for bovine rhodopsin. Proc. Nat. Acad. Sci. USA **83**, 599-603.
10. Damiani, G., Romagnoli, S., Ferretti, L., Morelli, L., Bottazzi, V., Sgaramella, V. (1987) Sequence and functional analysis of a cryptic plasmid of *L.acidophilus* 168S. Plasmid **17**, 69-72.
11. Morelli, L., Cocconcelli, P.S., Bottazzi, V., Damiani, G., Ferretti, L., Sgaramella, V. (1987) *Lactobacillus* protoplast transformation. Plasmid **17**, 73-75.
12. Ferretti, L., Raimondi, E., Davis, L., Romagnoni, M., De Carli, L., Sgaramella, V., Young, B.D. (1987) Cytological analysis and sorting of a human supernumerary minichromosome. Cytotechnology **1**, 7-12.
13. Damiani, G., Romagnoli, S., Ferretti, L., Morelli, L., Bottazzi, V., Sgaramella, V. (1987) Characterization of a divergent promoter of a *L.acidophilus* 168S cryptic plasmid. In "GIM86: Genetics of Industrial Microorganisms", Alacevic, M., Hranueli, D., Toman, Z., eds., Zagreb, Yugoslavia, p. 431-434.
14. Torroni, A., Raimondi, E., Ferretti, L., Daielli, C., Santachiara, A.S., De Carli, L., Sgaramella, V. (1988) Isolation and mapping of a polymorphic DNA sequence (lambdaMC.34) on chromosome 2 [D2S63] Nucl. Acid Res. **16**, p.9061.
15. Damiani, G., Ponzetta, G., Romagnoli, S., Ferretti, L., Morelli, L., Bottazzi, V., Sgaramella, V. (1988) Plasmid vectors for *L.acidophilus* transformation: characterization and use. In "Macromolecules in the functioning cell", Castellani, A., Balduini, C., Volpe, P., eds., Monografie Scientifiche CNR, Roma, p.63-68.
16. Sgaramella, V., Ferretti, L., Gamberi, C., Damiani, G., Panzeri, L., Sora, S. (1988) Procedura per clonare frammenti di restrizione originali in vettori pYAC: stabilità replicativa e segregativa di cromosomi artificiali contenenti DNA bovino. In "Mappaggio del Genoma Bovino", edizioni Fondazione Iniziative Zooprofilattiche e Zootecniche vol.25, p.99-115.
17. Damiani, G., Ferretti, L., Rognoni, G., Sgaramella, V. (1988) Identificazione delle varianti A e B della κ-caseina nel DNA bovino. L'industria del latte **24**, 171-172.

18. Damiani, G., Ferretti, L., Gamberi, C., Sgaramella, V. (1989) Le basi molecolari del miglioramento genetico. *L'Italia Agricola* **3**, 23-33.
19. Sgaramella, V., Ferretti, L., Damiani, G., Sora, S. (1990) A procedure for cloning restriction fragments of DNA as single inserts in yeast artificial chromosomes. *Biochem. Internat.* **20**(3), 503-510.
20. Cuzzoni, E., Ferretti, L., Giordani, C., Castiglione, S., and Sala, F. (1990) A repeated chromosomal DNA sequence is amplified as a circular extrachromosomal molecule in rice (*Oryza sativa* L.) *Molec. Gen. Genet.* **222**, 58-64.
21. Ferretti, L., Leone, P., Rognoni, G., Sgaramella, V. (1990) Linkage of the four bovine casein genes as demonstrated by pulsed field gel electrophoresis. In "Proc. of the 4th World Congress on Genetics Applied to Livestock Production", Hill, W.G., Thompson, R., Williams, J.A., eds., Edinburgh, Vol.XIII, p.75-78.
22. Pandolfo, M., Antonelli, A., Weitnauer, L., Ferretti, L., Leone, M., Dones, I., Cerino, A., Fujita, R., Hanauer, A., Sirugo, G., Mandel, J.L., and Di Donato, S. (1990) Friedreich's ataxia in Italian families: genetic homogeneity and linkage disequilibrium with the marker loci D9S5 and D9S15. *Am. J. Hum. Genet.* **47**, 228-235.
23. Damiani, G., Ferretti, L., Rognoni, G., Sgaramella, V. (1990) Restriction fragment length polymorphism analysis of the α -casein locus in cattle. *Animal Genet.* **21**, 107-114.
24. Benedetto, A., Cacciò, S., Damiani, G., Ferretti, L., Leone, P., Pasquali, E., Pilla, F., Ricci, C., and Sgaramella, V. (1990) The casein gene family in cattle: a paradigm for convergent genetic analysis procedures. In "Recombinant DNA Technology in Industry and Agriculture: State of the Art in Italy" Amaldi, F., De Felice, M., Di Fonzo, N., Merlin, P., Polzinelli, M., Viotti, A. Eds., Amity Rassegna Scientifica Vol.5, p.96-103.
25. Sala, F., Lupotto, E., Cuzzoni, E., Bellini, C., Lusardi, M.C., Locatelli, F., Giordani, C., De Paoli, F., and Ferretti, L. (1990) Gene amplification and structural modification of DNA associated with the *in vitro* plant cell culture. In "Recombinant DNA Technology in Industry and Agriculture: State of the Art in Italy" Amaldi, F., De Felice, M., Di Fonzo, N., Merlin, P., Polzinelli, M., Viotti, A., eds., Amity Rassegna Scientifica Vol.5, p.155-160.
26. Ferretti, L., Leone, P., Sgaramella, V. (1990) Long range restriction analysis of the bovine casein genes. *Nucl. Acids Res.* **18**, 6829-6833.
27. Raimondi, E., Ferretti, L., Young, B.D., Sgaramella, V., and De Carli, L. (1991) The origin of a morphologically unidentifiable human supernumerary minichromosome traced via sorting, molecular cloning and *in situ* hybridization. *J. Med. Genet.* **28**, 92-96.
28. Castiglione, S., Marchesi, M.L., Zheng, K.L., Cuzzoni, E., Morandi, C., Ferretti, L., Sala, F. (1991) Plasticity of the rice genome: DNA amplification in cultured cells. In "Biotechnology in Agriculture and Forestry", Vol.14 Rice, Bajaj, Y.P.S., ed., Springer-Verlag, Berlin, p.447-457.
29. Ferretti, L., Raimondi, E., Gamberi, C., Young, B.D., De Carli, L., and Sgaramella, V. (1991) Molecular cloning of DNA from a sorted human minichromosome. *Gene* **99**, 229-234.
30. Balestrazzi, A., Bernacchia, G., Cella, R., Ferretti, L., and Sora, S. (1991) Preparation of high molecular weight plant DNA and its use for artificial chromosome construction. *Plant Cell Reports* **10**, 315-320.
31. Semino, O., Torroni, A., Ferretti, L., and Santachiara Benerecetti, A.S. (1991) Two additional *MspI* RFLPs revealed by MC.34 (D2S63). *Nucl. Acids Res.* **19**, 6345.
32. Ferretti, L., Cuzzoni, E., Sala, F. (1991) Pulsed field gel electrophoresis of plant DNA. In "A laboratory guide for cellular and molecular plant biology". BioMethods Vol.4, Negruțiu, I., Gharti-Chhetri, G.B., eds., Birkhäuser Verlag, Basel-Boston-Berlin, p. 267-276.
33. De Rubertis, F., Comincini, S., Leone, P., Rognoni, G., Ferretti, L. (1993) Construction of a library of bovine genomic fragments enriched in CpG islands. *Animal Genetics* **24**, 1-7.
34. Ferretti, L., Leone, P., De Rubertis, F., Comincini, S., Pilla, F., Zhang, Y., Mezzelani, A., Gliozi, T. (1993) Isolamento e studio di marcatori genetici per l'analisi della variabilità nei bovini. In "Stato dell'arte delle ricerche italiane nel settore delle biotecnologie applicate alle scienze vetrinarie e zootecniche", edizioni Fondazione Iniziative Zooprofilattiche e Zootecniche vol.35, p.137-146.
35. Ferretti, L., Leone, P., Pilla, F., Zhang, Y., Nocart, M., Guerin, G. (1994) Direct characterisation of bovine

- microsatellites from cosmids: polymorphism and synteny mapping. *Animal Genetics* **25**, 209-214.
36. Mezzelani, A., Solinas Toldo, S., Nocart, M., Guerin, G., Ferretti, L., Fries, R. (1994) Mapping of syntenic groups U7 and U27 to bovine chromosomes 25 and 12, respectively. *Mamm. Genome* **5**, 574-576.
37. Ferretti, L., Leone, P., Zhang, Y., Redaelli, L., Comincini, S., Pilla, F., Glioza, T., Castiglioni, B., Mezzelani, A., Pagnacco, G., Rognoni, G. (1994) Applicazione dei marcatori molecolari per la caratterizzazione genetica dei bovini. In "Stato dell'arte delle ricerche italiane nel settore delle biotecnologie applicate alle scienze veterinarie e zootecniche", edizioni Fondazione Iniziative Zooprofilattiche e Zootecniche vol.37, p.185-195.
38. Mezzelani A., Solinas Toldo S., Castiglioni B., Zhang Y., Redaelli L., Leone P., Fries R., Ferretti L. (1994) Physical mapping of bovine microsatellites as a tool for Marker Assisted Selection. In "Animal Production and Biotechnology" Greppi, G.F., Enne, G. , ed., Elsevier 1994, p.191-197.
39. Pilla, F., Leone, P., Zhang, Y., Redaelli, L., Ferretti, L., Comincini, S., Napolitano, F., Moioli, B.M., Puppo, S. (1994) Applicazione di marcatori microsatelliti alla tipizzazione di un nuovo tipo genetico. In "Stato dell'arte delle ricerche italiane nel settore delle biotecnologie applicate alle scienze veterinarie e zootecniche", edizioni Fondazione Iniziative Zooprofilattiche e Zootecniche vol.37, p.259-265.
40. Eggen, A., Ostry, A., Vaiman, D., Ferretti, L., Fries, R., Cribiu, E.P. (1994) Bovine synteny group U7, previously assigned to G-banded chromosome 25, corresponds to R-banded chromosome 29. *Hereditas* **121**, 295-300.
41. Solinas Toldo, S., Mezzelani, A., Hawkins, G.A., Bishop, M.D., Olsaker, I., Mackinlay, A.G., Ferretti, L., Fries, R. (1995) Identification of bovine chromosomes 1 to 7 based on fluorescence in situ hybridisation. *Cytogen. Cell Genet.* **69**, 1-6.
42. Cuzzoni, E., Giordani, G., Stampacchia, O., Bolchi, A., Malcevschi, A., Ottonello, S., Ferretti, L., Sala, F. (1995) Presence of chloroplast DNA sequence in an autonomous circular DNA molecule in cultured rice (*Oryza sativa* L.) cells. *Plant & Cell Physiology* **36**(4), 717-725.
43. Zhang, Y., Redaelli, L., Castiglioni, B., Mezzelani, A., Ferretti, L. (1995). Five polymorphic bovine microsatellite loci IDVGA-62A, IDVGA-71, IDVGA-82, IDVGA-88, IDVGA-90. *Animal Genetics* **26**, 365-366.
44. Mezzelani, A. Zhang, Y., Redaelli, L., Castiglioni, B., Leone, P., Williams, J.J., Solinas Toldo, S., Wigger, G., Fries, R., Ferretti, L. (1995) Chromosomal localization and molecular characterization of 53 cosmid-derived bovine microsatellites. *Mammalian Genome* **6**, 629-635.
45. Comincini, S., Leone, P., Redaelli, L., De Giuli, L., Zhang, Y., Ferretti, L. (1995) Characterization of bovine microsatellites by silver staining. *J. Anim. Breed. Genet.* **112**, 415-420.
46. Leone, P., Ferretti, L. (1996) Genetica molecolare: principi e applicazioni in zootecnica. In "Schede di Genetica Applicata alle Produzioni Animali", a cura di Giulio Pagnacco, CittàStudiEdizioni, 1^a ediz Milano, Febbraio 1996, p.141-153.
47. Ferretti, L. (1996) Il BOVMAP, progetto europeo di mappaggio del genoma bovino. *BioTec* **1**, 42-50.
48. Redaelli, L., Zhang, Y., Castiglioni, B., Mezzelani, A., Comincini, S., Guerin, G., Ferretti, L. (1996) Characterization and mapping of three bovine polymorphic microsatellite loci. *Animal Genetics* **27**, 121.
49. Mezzelani, A., Castiglioni, B., Eggen, A., Ferretti, L. (1996) T-banding pattern for the bovine chromosomes and karyotype reconstitution with physically mapped cosmids. *Cytogenet. Cell Genet.* **73**, 229-234.
50. Napolitano, F., Leone, P., Puppo, S., Moioli, B.M., Pilla, F., Comincini, S., Ferretti, L., Carretta, A. (1996) Exploitation of microsatellites as genetic markers of beef-performance traits in Piemontese x Chianina crossbred cattle. *J. Anim. Breed. Genet.* **113**, 157-162.
51. Castiglioni B., Ferretti L., Tenchini M.L., Mezzelani A., Simonic T., Duga S. (1996) Physical mapping of connexin 32 (GJB1) and 43 (GJA1) genes to bovine chromosomes Xq22 and 9q15/16 by fluorescence in situ hybridization. *Mammalian Genome* **7**, 634-635.
52. Williams, J.L., Urquhart, B.G.D., Barendse, W., Ferretti, L. (1996) Genetic mapping of 26 cosmid derived bovine microsatellite markers. *Animal Genetics* **27**, 380-381.

53. Nijman, I.J., Lenstra, J.A., Schwerin, M., Guérin, G., Castiglioni, B., Ferretti, L., Olsaker, I. (1996) Physical, synteny and genetic mapping of two polymorphic bovine dinucleotide repeats IOBT 450 (D6S31) and IDVGA80 (D2S46). *Animal Genetics* **27**, 377-378.
54. Harlizius, B., Guérin, G., Ferretti, L. (1996) IDVGA65 (D6S29), an SSCP marker assigned to BTA6 by means of FISH, genetic and synteny mapping. *Animal Genetics* **27**, 379.
55. Tammen, I., Ferretti, L. (1996) A bovine polymorphic microsatellite locus IDVGA68 (D16S23) assigned to BTA16. *Animal Genetics* **27**, 433.
56. Castiglioni B., Scocchi M., Zanetti M., Ferretti L. Six antimicrobial peptide genes of the cathelicidin family map to bovine chromosome 22q24 by fluorescence *in situ* hybridization (1996). *Cytogenet. Cell Genet.* **75**, 240-242.
57. Ferretti, L., Urquhart, B.G.D., Eggen, A., Olsaker, I., Harlizius, B., Castiglioni, B., Mezzelani, A., Solinas Toldo, S., Thieven, U., Zhang, Y., Morgan, A.L.G., Teres, V.M., Schwerin, M., Martin-Burriel, I., Chowdary, B., Erhardt, G., Nijman, I.J., Cribiu, E.P., Barendse, W., Leveziel, H., Fries, R., Williams, J.L. (1997) Cosmid-derived markers anchoring the bovine genetic map to the physical map. *Mammalian Genome* **8**, 29-36.
58. Barendse, W., Vaiman, D., Kemp, S.J., Sugimoto, Y., Armitage, S., Williams, J.L., Sun, H.S., Eggen, A., Agaba, M., Aleyasin, S.A., Band, M., Bishop, M.D., Buitkamp, J., Byrne, K., Collins, F., Cooper, L., Coppettiers, W., Denys, B., Drinkwater, R.D., Easterday, K., Elduque, C., Ennis, S., Erhardt, G., Ferretti, L., Flavin, N., Gao, Q., Georges, M., Gurung, R., Harlizius, B., Hawkins, G., Hetzel, D.J.S., Hirano, T., Hulme, D., Joergensen, C., Kessler, M., Kirkpatrick, B.W., Konfortov, B., Kostia, S., Kuhn, C., Lenstra, J., Leveziel, H., Lewin, H.A., Leyhe, B., Li, L., Martin Burriel, I., McGraw, R.A., Miller, J.R., Moody, D.E., Moore, S.S., Nakane, S., Nijman, I., Olsaker, I., Pomp, D., Rando, A., Ron, M., Shalom, A., Teale, A.J., Thieven, I., Urquhart, B., Vage, D-I., Van de Weghe, A., Varvio, S., Velmala, R., Vilki, J., Weikard, R., Woodside, C., Womack, J.E., Zanotti, M., and Zaragoza, P. (1997). A medium density genetic linkage map of the bovine genome. *Mammalian Genome* **8**, 21-28.
59. Riboni, R., Casati, A., Nardo, T., Zaccaro, E., Ferretti, L., Nuzzo, F., Mondello, C. (1997) Telomeric fusions in cultured human fibroblasts as a source of genomic instability. *Cancer Genet. and Cytogenet.* **95**, 130-136.
60. Comincini, S., Drisaldi, B., Ferretti, L. (1997) Isolation of coding sequences from bovine cosmids by means of exon-trapping. *Mammalian Genome* **8**, 486-490.
61. Iannuzzi, L., Ferretti, L., Di Meo, G.P., Perucatti, A. (1997a). FISH mapping of bovine U21, U1 and U7 molecular markers to river buffalo chromosomes 3p, 5q and 5p. *Chromosome Research* **5**, 337-340.
62. Iannuzzi, L., Di Meo, G.P., Ferretti, L. (1997b). Six bovine cosmid-derived microsatellites mapping different syntenic groups are fluorescence *in situ* hybridization-mapped to six river buffalo chromosomes. *Chromosome Research* **5**, 541-543.
63. Castiglioni, B., Comincini, S., Drisaldi, B., Motta, T., Ferretti L. (1998). Comparative mapping of the prion gene (PRNP) locus in cattle, sheep and man with PCR-generated probes. *Mammalian Genome* **9**, 853-855.
64. Iannuzzi, L., Di Meo, G.P., Perucatti, A., B. Castiglioni, B., Ferretti, L. (1998). Eight molecular markers from bovine syntenic groups U2, U5, U24, U14, U12, U28, X and Y were fluorescence *in situ* mapped to eight river buffalo chromosomes. *Chromosome Research* **6**, 656-659.
65. Zhang, Y., Cao, H., Ferretti, L. (1998). IDVGA75 (D15S24), a polymorphic microsatellite locus physically mapped to bovine chromosome BTA 15q25. *Animal Genetics* **29**, 472.
66. Comincini, S., Castiglioni, B., Foti, G., Ferretti, L. (1999). Il prione bovino: analisi molecolare del locus e ricerca di nuovi loci associati. In "Strumenti Innovativi per la Ricerca Avanzata nelle Produzioni Animali", Edit. Greppi, G.F. e Enne, G. MG scientific Publications, pp. 241-253.
- 66A. Cao HH, Wang YC, Chen YC, Zhang Y, Ferretti L. (1999). Studies of beef performance traits in Piemontese x Nanyang crossbred using microsatellites as genetic markers. I Chuan Hsueh Pao (Chinese Journal of Genetics - ISSN 0253-9772) 26(6), 621-626.
67. Ceciliani, F., Ferretti, L., Comincini, S. (2000). Le malattie da prioni. BioTec 5 Vol. 1, 30-39.
68. Ferretti, L. (2000). Il buono e il cattivo. In "Genetica in Medicina", Ricerca Roche 29, 26-29.
69. Castiglioni, B., Comincini, S., Foti, G., Ferretti, L. (2000). Assignment of Interleukin-1 receptor, type I (IL-1R1) to

- bovine chromosome band 11q12 by in situ hybridisation. *Cytogenet Cell Genet.* **89**, 166-167.
70. Ferretti, L. (2000) VETERINARY SCIENCE AND GENETIC REVOLUTION. Mapping the bovine genome: the old and the new. SISVET 2000 Annual Meeting Proceedings and Abstracts, p. 23-30.
71. Comincini, S., Castiglioni, B., Del Vecchio, I., Foti, M.G. and Ferretti, L. (2000) Structure and comparative analysis of the bovine prion gene locus. *Current Genomics* **1**, 313-321.
72. Comincini S, Castiglioni BM, Foti GM, Del Vecchio I, Ferretti L. (2001) Isolation and molecular characterization of rasfadin, a novel gene in the vicinity of the bovine prion gene. *Mamm Genome* **12**, 150-6.
73. Castiglioni, B., Comincini, S., Foti, M.G., Del Vecchio, I., Ferretti, L. (2001). Assignment of sodium-dependent vitamin C transporter (SLC23A1) to bovine chromosome band 13q17 by in situ hybridisation. *Cytogenet Cell Genet.* **92**, 170-171.
74. Hills, D., Comincini, S., Ferretti, L., Williams, JL (2001). Complete genomic sequence of the bovine prion gene (PRNP) and polymorphism in its promoter region. *Animal Genetics* **32**, 231-232.
75. Comincini, S., Foti, M.G., Tranulis, M.A., Hills, D.A., Di Guardo, G., Vaccari, G., Williams, J.L., Harbitz, I., Ferretti, L. (2001) Genomic organization, comparative analysis and genetic polymorphisms of the bovine and ovine prion Doppel genes (PRND). *Mamm. Genome* **12**, 729-733.
76. Williams, J.L., Eggen, A., Ferretti, L., et al. (2002). A Bovine Whole Genome Radiation Hybrid Panel and Outline Map. *Mammalian Genome* **13**, 469-474.
77. Di Meo G.P., Perucatti, A., Incarnato, D., Ferretti, L., Di Berardino, D., Caputi, A., Jambrenghi, Vonghia, G., Iannuzzi, L. (2002). Comparative mapping of twenty-eight bovine loci in sheep (*Ovis aries*, 2n = 54) and river buffalo (*Bubalus bubalis*, 2n = 50) by FISH. *Cytogenet Genome Res.* **98**, 262-264.
78. Hills D, Schlaepfer J, Comincini S, MacLean I, Dolf G, Ferretti L, Olsaker I, Williams JL. (2003) Sequence variation in the bovine and ovine PRNP genes. *Anim Genet.* **34**, 183-190.
79. Iannuzzi L, Di Meo GP, Perucatti A, Schibler L, Incarnato D, Gallagher D, Eggen A, Ferretti L, Cribu EP, Womack J (2003) The river buffalo (*Bubalus bubalis*, 2n = 50) cytogenetic map: assignment of 64 loci by fluorescence in situ hybridization and R-banding. *Cytogenet Genome Res.* **102**, 65-75.
80. Comincini S., Facoetti A., Del Vecchio I., Peoc'h K., Laplanche J.-L., Magrassi L., Ceroni M., Ferretti L., Nano R. (2004). Differential expression of the prion-like protein doppel gene (PRND) in astrocytomas: a new molecular marker potentially involved in tumor progression. *Anticancer Research* **24**, 1507-1517.
81. Travaglino E., Comincini S., Benatti C., Azzalin A., Nano R., Rosti V., Ferretti L., Invernizzi R. (2005). Overexpression of the Doppel protein in acute myeloid leukaemias and myelodysplastic syndromes. *British Journal of Haematology*, **128**, 877-884.
82. Di Meo GP, Perucatti A, Floriot S, Incarnato D, Rullo R, Caputi-Jambrenghi A, Ferretti L, Vonghia G, Cribu E, Eggen A, Iannuzzi L (2005). Chromosome evolution and improved cytogenetic maps of the Y chromosome in cattle, zebu, river buffalo, sheep and goat. *Chromosome Res.* **13**, 349-355.
83. Del Vecchio I., Azzalin A., Guidi E., Amati G., Caramori T., Ubaldi C., Comincini S., Ferretti L. (2005). Functional mapping of the bovine Doppel gene promoter region. *Gene* **356**, 101-108.
84. Di Meo, G.P., Perucatti A., Ubaldi C., Roperto, S., Incarnato D., Roperto F., Williams J., Eggen A., Ferretti L., Iannuzzi L. (2005) Comparative mapping of the fragile histidine triad (FHIT) gene in cattle, river buffalo, sheep and goat by FISH and assignment to BTA22 by RH-mapping: a comparison with HSA3. *Animal Genetics* **36**, 363-364.
85. Ubaldi C, Del Vecchio I, Foti MG, Azzalin A, Paulis M, Raimondi E, Vaccari G, Agrimi U, Di Guardo G, Comincini S, Ferretti L (2005). The prion-like Doppel gene (PRND) in the goat: genomic structure, cDNA and polymorphisms. *Mamm Genome* **16**, 963-971.
86. Azzalin A, Del Vecchio I, Chiarelli L, Valentini G, Sergio C, Ferretti L (2005). Absence of interaction between doppel and GFAP, Grb2 PrPc proteins in human tumor astrocytic cells. *Anticancer Research* **25**, 4369-4374.

87. Bellagamba F, Comincini S, Ferretti L, Valfre F, Moretti VM. (2006) Application of quantitative real-time PCR in the detection of prion-protein gene species-specific DNA sequences in animal meals and feedstuffs. *J Food Prot.* 69, 891-896.
88. Ubaldi C, Guidi E, Roperto S, Russo V, Roperto F, Di Meo GP, Iannuzzi I, Floriot S, Boussaha M, Eggen A, Ferretti L (2006). Comparative genomic mapping of the bovine Fragile Histidine Triad (FHIT) tumour suppressor gene: characterization of a 2 Mb BAC contig covering the locus, complete annotation of the gene, analysis of cDNA and of physiological expression profiles. *BMC Genomics* 7, 123.
89. Azzalin A, Ferrara V, Arias A, Cerri S, Avella D, Bonaria Pisu M, Nano R, Bernocchi G, Ferretti L, Comincini S (2006). Interaction between the cellular prion (PrPC) and the 2P domain K⁺ channel TREK-1 protein. *BBRC* 346, 108-115.
90. Comincini S, Chiarelli LR, Zelini P, Del Vecchio I, Azzalin A, Arias A, Ferrara V, Rognoni P, Dipoto A, Nano R, Valentini G, Ferretti L (2006). Nuclear mRNA retention and aberrant doppel protein expression in human astrocytic tumor cells. *Oncology Reports*, 16(6), 1325-1332.
91. Ubaldi C, Paulis M, Guidi E, Bertoni A, Di Meo GP, Perucatti A, Iannuzzi L, Raimondi E, Brunner RM, Eggen A, Ferretti L (2006). Cloning of the bovine prion-like Shadoo (SPRN) gene by comparative analysis of the predicted genomic locus. *Mammalian Genome* vol. 17(11), 1130-1139.
92. Azzalin A, Del Vecchio I, Ferretti L, Comincini S (2006). The Prion-Like Protein Doppel (Dpl) Interacts with the Human Receptor for Activated C-Kinase 1 (RACK1) Protein. *Anticancer Research* 26, 4539-4548.
93. Di Meo GP, Perucatti A, Floriot S, Hayes H, Schibler L, Rullo R, Incarnato D, Ferretti L, Cockett N, Cribiu E, Williams JL, Eggen A, Iannuzzi L (2007) An advanced sheep (*Ovis aries*, 2n=54) cytogenetic map and assignment of 88 new autosomal loci by fluorescence in situ hybridization and R-banding. *Animal Genetics* 38, 233-240.
94. Comincini S, Ferrara V, Arias A, Malovini A, Azzalin A, Ferretti L, Benericetti E, Cardarelli M, Gerosa M, Passarin MG, Turazzi S, Bellazzi R. (2007) Diagnostic value of PRND gene expression profiles in astrocytomas: relationship to tumor grades of malignancy. *Oncol Rep.* 5, 989-996.
95. Ajmone-Marsan P, Caroli AM, Crepaldi P, Di Stasio L, Feligini M, Ferretti L, Masina P, Ramunno L, Rando A (2007) Geni singoli nella selezione degli animali da latte. In "Acquisizioni della genetica e prospettive della selezione animale". I Georgofili – Quaderni 2006 I, 79-105.
96. Achilli A, Olivieri A, Pellecchia M, Ubaldi C, Colli L, Al-Zahery N, Accetturo M, Pala M, Hooshiar Kashani B, A Perego UA, Battaglia V, Fornarino S, Kalamati J, Houshmand M, Negrini R, Semino O, Richards M, Macaulay V, Ferretti, Bandelt H-J, Ajmone Marsan P, Torroni A (2008) Mitochondrial Genomes of Extinct Aurochs Survive in Domestic Cattle. *Curr Biol* 18, R157-8.
97. Guidi E, Ubaldi C, Ferretti L (2008). Molecular Analysis of the Fragile Histidine TRiad (FHIT) tumor suppressor gene in vesical tumors of cattle with Chronic Enzootic Hematuria (CEH). *Cytogenetic and Genome Research* 120, 173-177.
98. Peretti V, Ciotola F, Albarella S, Restucci B, Meomartino L, Ferretti L, Barbieri V, Iannuzzi I (2008). Increased levels of SCEs in Mediterranean Italian buffaloes affected by limb malformation (transversal hemimelia). *Cytogenetic and Genome Research* 120, 183-187.
99. Sbalchiero E, Azzalin A, Palumbo S, Barbieri G, Arias A, Simonelli L, Ferretti L, Comincini S (2008). Altered cellular distribution and sub-cellular sorting of doppel (Dpl) protein in human astrocytoma cell lines. *Cell Onc* 30, 337-347.
100. Achilli A, Bonfiglio S, Olivieri A, Malusà A, Pala M, Kashani BH, Perego UA, Ajmone-Marsan P, Liotta L, Semino O, Bandelt HJ, Ferretti L, Torroni A (2009). The multifaceted origin of taurine cattle reflected by the mitochondrial genome. *PLoS ONE* 4:e5753. PubMed PMID: 19484124; PubMed Central PMCID: PMC2684589.
101. Manera S, Bonfiglio S, Malusà A, Denis C, Boussaha M, Russo V, Roperto F, Perucatti A, Di Meo GP, Eggen A, L. Ferretti L (2009). Comparative mapping and genomic annotation of the bovine oncosuppressor *WWOX* gene. *Cytogenetics and Genome Research* 126, 186-193. PubMed PMID: 20016169.

102. Bonfiglio S, Achilli A, Olivieri A, Negrini R, Colli L, Liotta L, Ajmone-Marsan P, Torroni A, Ferretti L (2010) The Enigmatic Origin of Bovine mtDNA Haplogroup R: Sporadic Interbreeding or an Independent Event of *Bos primigenius* Domestication in Italy? Plos ONE 5:e15760.
103. Bonfiglio S, De Gaetano A, Tesfaye K, Grugni V, Semino O, Ferretti L (2012). A novel *USP9Y* polymorphism allowing a rapid and unambiguous classification of *Bos taurus* Y chromosomes into haplogroups. *Anim Genet.* 43, 611-613 doi: 10.1111/j.1365-2052.2012.02328.x. Epub 2012 Feb 9. PMID: 22497446.
104. Bonfiglio S, Ginja C, De Gaetano A, Achilli A, Olivieri A, Colli L, Tesfaye K, Agha SH, Gama LT, Cattonaro F, M. Penedo CT, Ajmone-Marsan P, Torroni A and Ferretti L (2012). Origin and spread of *Bos taurus*: new clues from mitochondrial genomes belonging to haplogroup T1. *PLoS One.* 7(6):e38601. Epub 2012 Jun 7.
105. Lenstra JA, Ajmone-Marsan P, Beja-Pereira A, Bollongino R, Bradley DG, Colli L, De Gaetano A, Edwards CJ, Felius M, Ferretti L, Ginja C, Hristov P, Kantanen J, Lirón JP, Magee DA, Negrini R, Radoslavov GA. Meta-Analysis of Mitochondrial DNA Reveals Several Population Bottlenecks during Worldwide Migrations of Cattle. *Diversity.* 2014; 6(1):178-187. doi:[10.3390/d6010178](https://doi.org/10.3390/d6010178) - published online 14 March 2014.
106. Carossa V, Ghelli A, Tropeano CV, Valentino ML, Iommarini L, Maresca A, Caporali L, Morgia CL, Liguori R, Barboni P, Carbonelli M, Rizzo G, Tonon C, Lodi R, Martinuzzi A, Nardo VD, Rugolo M, Ferretti L, Gandini F, Pala M, Achilli A, Olivieri A, Torroni A, Carelli V. A novel in-frame 18-bp microdeletion in MT-CYB causes a multisystem disorder with prominent exercise intolerance. *Hum Mutat* 35:954-958 (2014).
107. Olivieri A, Gandini F, Achilli A, Fichera A, Rizzi E, Bonfiglio S, Battaglia V, Brandini S, De Gaetano A, El-Beltagi A, Lancioni H, Agha S, Semino O, Ferretti L, Torroni A. Mitogenomes from Egyptian Cattle Breeds: New Clues on the Origin of Haplogroup Q and the Early Spread of *Bos taurus* from the Near East. *PLoS One.* 2015 Oct 29;10(10):e0141170. doi: 10.1371/journal.pone.0141170. eCollection 2015. PubMed PMID: 26513361; PubMed Central PMCID: PMC4626031.
108. Grugni V, Battaglia V, Perego UA, Raveane A, Lancioni H, Olivieri A, Ferretti L, Woodward SR, Pascale JM, Cooke R, Myres N, Motta J, Torroni A, Achilli A, Semino O. Exploring the Y Chromosomal Ancestry of Modern Panamanians. *PLoS One.* 2015 Dec 4;10(12):e0144223. doi: 10.1371/journal.pone.0144223. eCollection 2015. PubMed PMID: 26636572; PubMed Central PMCID: PMC4670172.
109. Lancioni H, Di Lorenzo P, Cardinali I, Ceccobelli S, Capodiferro MR, Fichera A, Grugni V, Semino O, Ferretti L, Grupetta A, Attard G, Achilli A, Lasagna E. Survey of uniparental genetic markers in the Maltese cattle breed reveals a significant founder effect but does not indicate local domestication. *Anim Genet.* 2016 Feb 11. doi: 10.1111/age.12408. [Epub ahead of print] PubMed PMID: 26868928.
110. Gandini F, Achilli A, Pala M, Bodner M, Brandini S, Huber G, Egyed B, Ferretti L, Gómez-Carballa A, Salas A, Scozzari R, Cruciani F, Coppa A, Parson W, Semino O, Soares P, Torroni A, Richards MB, Olivieri A. Mapping human dispersals into the Horn of Africa from Arabian ice age refugia using mitogenomes. *Sci Rep* 6:25472 (2016). doi: 10.1038/srep25472. PMID: 27146119.