

Angela Perucatti



Senior Researcher (Permanent position)

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Education and Professional Experience

2014: Member of the organizing committee of the 21st International Colloquium on Animal Cytogenetics and Gene Mapping (21st ICACGM) June 7-10, 2014 Ischia (Naples) Italy;

2014: Responsible for Commessa "AG.P04.014 Caratterizzazione, valorizzazione e sostenibilità di specie di rilevante interesse zootecnico mediante metodologie classiche e innovative";

2000: Researcher (Permanent position) CNR- ISPAAM, Napoli;

1993: Habilitate Exercise of the profession of Biologist;

1989: Degree in Biological Sciences at the Faculty of Sciences of the University of Naples.

Keywords

Genetic improvement, Sister Chromatid Exchanges, Bio-monitoring, Chromosome painting probes, Chromosome abnormality.

Selected publications (max 20)

1. Di Dio C, Longobardi V, Zullo G, Parma P, Pauciullo A, **Perucatti A**, Higgins J, Iannuzzi A. Analysis of meiotic segregation by triple-color fish on both total and motile sperm fractions in a t(1p;18) river buffalo bull. PLoS One. 2020 May 4;15(5):e0232592. doi: 10.1371/journal.pone.0232592.
2. Genuardo V, Rossetti C, Pauciullo A, Musilova P, Incarnato D, **Perucatti A**. A de novo reciprocal chromosomal translocation t(3;6)(p14;q26) in the black Lucano pig. Reprod Domest Anim. 2020 Jun;55(6):677-682. doi: 10.1111/rda.13664.
3. Iannuzzi A, Braun M, Genuardo V, **Perucatti A**, Reinartz S, Proios I, Heppelmann M, Rehage J, Hülskötter K, Beineke A, Metzger J, Distl O. Clinical, cytogenetic and molecular genetic characterization of a tandem fusion translocation in a male Holstein cattle with congenital hypospadias and a ventricular septal defect. PLoS One. 2020 Jan 10;15(1):e0227117. doi: 10.1371/journal.pone.0227117.
4. **Perucatti A**, Genuardo V, Pauciullo A, Iorio C, Incarnato D, Rossetti C, Vizzarri F, Palazzo M, Casamassima D, Iannuzzi L, Iannuzzi A. Cytogenetic tests reveal no toxicity in lymphocytes of rabbit (*Oryctolagus cuniculus*, 2n=44) feed in presence of verbascoside and/or lycopene. Food Chem Toxicol. 2018 Apr;114:311-315. doi: 10.1016/j.fct.2018.02.053.
5. Cancemi D, Iannuzzi A, **Perucatti A**, Montano L, Capozzi O, Spampanato C, Ventruto ML, Urciuoli M, Iannuzzi L, Ventruto V. Duplication of Yq- and proximal Yp-arms with deletion of almost all PAR1 (including SHOX) in a young man with non-obstructive azoospermia, short stature and skeletal defects. J Appl Genet. 2017 Nov;58(4):481-486. doi: 10.1007/s13353-017-0412-7.
6. Larocca M, Perna AM, Simonetti A, Gambacorta E, Iannuzzi A, **Perucatti A**, Rossano R. Antioxidant and anti-inflammatory effects of cauliflower leaf powder- enriched diet against LPS induced toxicity in rabbits. Food Funct. 2017 Sep 20;8(9):3288-3296. doi: 10.1039/c7fo00253j.
7. Pauciullo A, Knorr C, **Perucatti A**, Iannuzzi A, Iannuzzi L, Erhardt G. Characterization of a very rare case of living ewe-buck hybrid using

classical and molecular cytogenetics. *Sci Rep.* 2016 Oct 4;6:34781. doi: 10.1038/srep34781.

8. Iannuzzi A, Perucatti A, Genualdo V, Pauciullo A, Melis R, Porqueddu C, Marchetti M, Usai M, Iannuzzi L. Sister chromatid exchange test in river buffalo lymphocytes treated in vitro with furocoumarin extracts. *Mutagenesis.* 2016 Sep;31(5):547-51. doi: 10.1093/mutage/gew022. Epub 2016 May 14. PMID: 27180332.
9. Iannuzzi A, Genualdo V, **Perucatti A**, Pauciullo A, Varricchio G, Incarnato D, Matassino D, Iannuzzi L. Fatal Outcome in a Newborn Calf Associated with Partial Trisomy 25q and Partial Monosomy 11q, 60,XX,der(11)t(11;25)(q11;q14~21). *Cytogenet Genome Res.* 2015;146(3):222-9. doi: 10.1159/000438973.
10. Genualdo V, **Perucatti A**, Pauciullo A, Iannuzzi A, Incarnato D, Spagnuolo MS, Solinas N, Bullitta S, Iannuzzi L. Analysis of chromosome damage by sister chromatid exchange (SCE) and redox homeostasis characterization on sheep flocks from Sardinian pasturelands. *Sci Total Environ.* 2015 Sep 15;527-528:393-400. doi: 10.1016/j.scitotenv.2015.05.021.
11. Pauciullo A, **Perucatti A**, Cosenza G, Iannuzzi A, Incarnato D, Genualdo V, Di Berardino D, Iannuzzi L. Sequential cross-species chromosome painting among river buffalo, cattle, sheep and goat: a useful tool for chromosome abnormalities diagnosis within the family Bovidae. *PLoS One.* 2014 Oct 17;9(10):e110297. doi: 10.1371/journal.pone.0110297. PMID: 25330006; PMCID: PMC4201488.
12. Iannuzzi A, **Perucatti A**, Genualdo V, Pauciullo A, Incarnato D, Musilova P, Rubes J, Iannuzzi C. The utility of chromosome microdissection in clinical cytogenetics: a new reciprocal translocation in sheep. *Cytogenet Genome Res.* 2014;142(3):174-8. doi: 10.1159/000361000. Epub 2014 Apr 9. PMID: 24733039.
13. Pauciullo A, **Perucatti A**, Iannuzzi A, Incarnato D, Genualdo V, Di Berardino D, Iannuzzi L. Development of a sequential multicolor-FISH approach with 13 chromosome-specific painting probes for the rapid identification of river buffalo (*Bubalus bubalis*, 2n = 50) chromosomes. *J Appl Genet.* 2014 Aug;55(3):397-401. doi: 10.1007/s13353-014-0207-z.
14. Farhadi A, Genualdo V, **Perucatti A**, Hafezian SH, Rahimi-Mianji G, De Lorenzi L, Parma P, Iannuzzi L, Iannuzzi A. Comparative FISH mapping of *BMP1B*, *BMP15* and *GDF9* fecundity genes on cattle, river buffalo, sheep and goat chromosomes. *J Genet.* 2013 Dec;92(3):595-7. doi: 10.1007/s12041-013-0301-8.
15. De Lorenzi L, Genualdo V, **Perucatti A**, Iannuzzi A, Iannuzzi L, Parma P.

Physical mapping of 20 unmapped fragments of the btau_4.0 genome assembly in cattle, sheep and river buffalo. *Cytogenet Genome Res.* 2013;140(1):29-35. doi: 10.1159/000350869.

16. Iannuzzi A, **Perucatti A**, Genualdo V, De Lorenzi L, Di Bernardino D, Parma P, Iannuzzi L. Cytogenetic elaboration of a novel reciprocal translocation in sheep. *Cytogenet Genome Res.* 2013;139(2):97-101. doi: 10.1159/000346193.
17. De Lorenzi L, Genualdo V, Gimelli S, Rossi E, **Perucatti A**, Iannuzzi A, Zannotti M, Malagutti L, Molteni L, Iannuzzi L, Parma P. Genomic analysis of cattle rob(1;29). *Chromosome Res.* 2012 Oct;20(7):815-23. doi: 10.1007/s10577-012-9315-y.
18. De Lorenzi L, Rossi E, Genualdo V, Gimelli S, Lasagna E, **Perucatti A**, Iannuzzi A, Parma P. Molecular characterization of Xp chromosome deletion in a fertile cow. *Sex Dev.* 2012;6(6):298-302. doi: 10.1159/000342189.
19. **Perucatti A**, Genualdo V, Iannuzzi A, Rebl A, Di Bernardino D, Goldammer T, Iannuzzi L. Advanced comparative cytogenetic analysis of X chromosomes in river buffalo, cattle, sheep, and human. *Chromosome Res.* 2012 May;20(4):413-25. doi: 10.1007/s10577-012-9285-0.
20. Genualdo V, **Perucatti A**, Iannuzzi A, Di Meo GP, Spagnuolo SM, Caputi-Jambrenghi A, Coletta A, Vonghia G, Iannuzzi L. Chromosome fragility in river buffalo cows exposed to dioxins. *J Appl Genet.* 2012 May;53(2):221-6. doi: 10.1007/s13353-012-0092-2.