

Alessandra Iannuzzi



Researcher (Permanent position)

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Education and Professional Experience

2014: Abroad experience at Cambridge University, Department of Veterinary Medicine. Maddingly road Cambridge, CB3 0ES, UK.

2012: Abroad experience at Veterinary Research Institute (VUVEL), Brno-Czech Republic. Department of Genetic and Reproduction. Hudcova 70, 62100 Brno, CZ.

2011: Researcher (permanent position)

2009: MRCVS (Member of Royal College Veterinary Surgeons)

2008: Specialization in "Physiopathology and Reproduction of Domestic Animals", Università degli studi di Napoli Federico II, Corso Umberto I 40, 80138 Naples-Italy.

2005: Degree in "Veterinary Medicine", Università degli studi di Napoli Federico II, via Federico Delphino, 1 80137 Naples-Italy.

Keywords

Animal Reproduction, Animal genetic and cytogenetic.

Selected publications

1. **Iannuzzi A**, Della Valle G, Russo M, Longobardi V, Albero G, De Canditiis C, Kosior MA, Pistucci R, Gasparrini B. Evaluation of bovine sperm telomere length and association with semen quality. *Theriogenology*. 2020 Dec;158:227-232. doi: 10.1016/j.theriogenology.2020.09.019.
2. De Lorenzi L, Pauciullo A, **Iannuzzi A**, Parma P. Cytogenetic Characterization of a Small Evolutionary Rearrangement Involving Chromosomes BTA21 and OAR18. *Cytogenet Genome Res*. 2020;160(4):193-198. doi: 10.1159/000507645.
3. 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.
4. **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.
5. 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.
6. Pero ME, Zullo G, Esposito L, **Iannuzzi A**, Lombardi P, De Canditiis C, Neglia G, Gasparrini B. Inhibition of apoptosis by caspase inhibitor Z-VAD-FMK improves cryotolerance of in vitro derived bovine embryos. *Theriogenology*. 2018 Mar 1;108:127-135. doi: 10.1016/j.theriogenology.2017.11.031.
7. Cancemi D, **Iannuzzi A**, Perucatti A, Montano L, Capozzi O, Spanpanato 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.
8. 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.

9. Iannuzzi A, Pereira J, Iannuzzi C, Fu B, Ferguson-Smith M. Pooling strategy and chromosome painting characterize a living zebroid for the first time. *PLoS One*. 2017 Jul 12;12(7):e0180158. doi: 10.1371/journal.pone.0180158.
10. De Lorenzi L, **Iannuzzi A**, Rossi E, Bonacina S, Parma P. Centromere Repositioning in Cattle (*Bos taurus*) Chromosome 17. *Cytogenet Genome Res*. 2017;151(4):191-197. doi: 10.1159/000473781.
11. 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.
12. **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.
13. **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.
14. Rossi E, Radi O, De Lorenzi L, **Iannuzzi A**, Camerino G, Zuffardi O, Parma P. A Revised Genome Assembly of the Region 5' to Canine SOX9 Includes the RevSex Orthologous Region. *Sex Dev*. 2015;9(3):155-61. doi: 10.1159/000435871.
15. 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.
16. **A Iannuzzi**, A Perucatti, A Pauciullo, V Genualdo, L De Lorenzi, P Parma, L Iannuzzi (2015). Fluorescent in situ hybridization mapping of three fecundity genes on cattle, river buffalo, sheep and goat. *Caryologia: International Journal of Cytology, Cytosystematics and Cytogenetics*, 68; 1:9-12
17. A Pauciullo, A Perucatti, G Cosenza, **A Iannuzzi**, D Incarnato, V Genualdo, D Di Berardino, L Iannuzzi (2014). 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, 17;9(10):e110297.

18. **A Iannuzzi**, A Perucatti, V Genuardo, A Pauciullo, D Incarnato, P Musilova, J Rubes, C Iannuzzi (2014). The Utility of Chromosome Microdissection in Clinical Cytogenetics: A New Reciprocal Translocation in Sheep. Cytogenet Genome Res, 142 (3):174-8.
19. A Pauciullo, A Perucatti, **A Iannuzzi**, D Incarnato, V Genuardo, D Di Berardino, L Iannuzzi (2014). 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 Genetic,s 55(3):397-401.
20. A Farhadi, V Genuardo, A Perucatti, SH Hafezian, G Rahimi-Mianji, L De Lorenzi, P Parma, L Iannuzzi, **A Iannuzzi** (2013). Comparative FISH mapping of BMPR1B, BMP15 and GDF9 fecundity genes on cattle, river buffalo, sheep and goat chromosomes. Journal of Genetics, 92 (3):595-597.