

## Curriculum vitae of Dott.ssa Federica Turri

Dr. Federica Turri is Research Scientist at the Italian National Research Council, Institute of Agricultural Biology and Biotechnology, from 2018. She graduated in Animal Husbandry Sciences and Technologies (2008) and she hold a PhD in Animal Production (2012), both at the Veterinary Faculty of the University of Milan. Since 2008 she focused her research activities in the field of animal reproduction, genomics and transcriptomics, focusing on multiparametric semen analysis by using advanced techniques and high-throughput methods for the molecular characterization of reproductive traits. In the field of animal reproduction the skills focus on assisted reproductive technologies applied to animal genetic resources in order to preserve animal biodiversity, in particular on the optimization of semen collection and freezing in different species, semen evaluation with advanced techniques as flow cytometry and computer assisted sperm analysis and the creation of animal genetic resources cryobank. The research activities consisted of 23 research papers on International journals (ISI) with Impact Factor. H-index is 11 (Author ID 25624144900, [www.scopus.com](http://www.scopus.com); <http://orcid.org/0000-0003-2876-999X>).

List of some selected publications:

- Palazzese L, Turri F, Anzalone DA, Saragusty J, Bonnet J, Colotte M, Tuffet S, Pizzi F, Luciani A, Matsukawa K, Czernik M and Loi P (2023) Reviving vacuum-dried encapsulated ram spermatozoa via ICSI after 2 years of storage. *Frontiers in Veterinary Science* 10:1270266. doi: 10.3389/fvets.2023.1270266
- CpG DNA methylation changes during epididymal sperm maturation in bulls (2023). Capra, F. Turri, B. Lazzari, S. Biffani, A. Lange Consiglio, P. Ajmone Marsan, A. Stella and F. Pizzi. *Epigenetics & Chromatin* 16, 20 (2023). <https://doi.org/10.1186/s13072-023-00495-6>
- Investigating Genetic and Phenotypic Variability of Queen Bees: Morphological and Reproductive Traits (2021). E Facchini, MG De Iorio, F Turri, F Pizzi, D Laurino, M Porporato, R Rizzi, G Pagnacco. *Animals* 2021, 11, 3054. <https://doi.org/10.3390/ani11113054>
- Turri F, Capra E, Lazzari B, Cremonesi P, Stella A, Pizzi F (2021). A combined flow cytometric semen analysis and miRNA profiling as a tool to discriminate between high- and low-fertility bulls. *Frontiers in Veterinary Science* 819:03101. <https://doi.org/10.3389/fvets.2021.703101>
- Genuardo V, Turri F, Pizzi F, Castiglioni B, Marletta D, Iannuzzi A (2021). Sperm Nuclei Analysis and Nuclear Organization of a Fertile Boar-Pig Hybrid by 2D FISH on Both Total and Motile Sperm Fractions. *Animals*, 11(3), 738; <https://doi.org/10.3390/ani11030738>
- Palazzese L, Anzalone DA, Turri F, Faieta M, Donnadio A, Pizzi F, Pittia P, Matsukawa K, Loi P (2020). Whole genome integrity and enhanced developmental potential in ram freeze-dried spermatozoa at mild sub-zero temperature. *Scientific Reports* 10 (1) article number 18873. doi: 10.1038/s41598-020-76061-x
- Toschi P, Capra E, Anzalone DA, Lazzari B, Turri F, Pizzi F, Scapolo PA, Stella A, Williams JL, Ajmone Marsan P, Loi P (2020) Maternal peri-conceptional undernourishment perturbs offspring sperm methylation. *Reproduction (Online)*, 159(5):513-523.
- Capra E, Lazzari B, Turri F, Cremonesi P, Portela AMR, Ajmone-Marsan P, Stella A, Pizzi F (2019) Epigenetic analysis of high and low motile sperm populations reveals methylation variation in satellite regions within the pericentromeric position and in genes functionally related to sperm DNA organization and maintenance in *Bos Taurus*.

BMC Genomics volume 20, Article number: 940 (2019)

- T.M. Gliozzi & F. Turri, S. Manes, C. Cassinelli and F. Pizzi (2017). The combination of kinetic and flow cytometric semen parameters as a tool to predict fertility in cryopreserved bull semen. *Animal*, 11(11):1975-1982.
- E Capra, F Turri, B Lazzari, P Cremonesi, TM Gliozzi, Fojadelli, A Stella, F Pizzi (2017). Small RNA sequencing of cryopreserved semen from single bull revealed altered miRNAs and piRNAs expression between High- and Low-Motile Sperm populations. *BMC Genomics*, 18:14