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Raffaele Boni is a veterinary scientist with a Ph.D. in Biotechnology and specialized in reproductive biology. He is an associate professor at the University of Basilicata, Potenza, teaching “Biology and Technology of Reproduction in mammals”, “Microscopy techniques and cell cultures” and “Physiology and Pathology of Reproduction in animals” for the bachelor degree in Biotechnology, and the master courses in Biotechnology for Diagnostics in Medicine, Pharmaceutical and Veterinary Sciences and in Animal Husbandry, respectively. He authored many publications and books concerning in vitro fertilization, gamete and embryo quality assessment in terrestrial and marine species. He is a member of the Editorial Board of Theriogenology (2004- to date), and Associated Editor of Scientific Reports (2019- to date) and Animals (2019- to date). Since 2015, he has directed his scientific interest towards ecotoxicology evaluating the effects of environmental and chemical stressors on the reproductive biology of marine organisms.

The last relevant papers

1. **Boni R**, Gallo A, Montanino M, Macina A, Tosti E. (2016) Dynamic changes in the sperm quality of *Mytilus galloprovincialis* under continuous thermal stress. *Mol Reprod Develop* **83**(2):162-73.
2. Gallo A, **Boni R**, Buttino I, Tosti E. (2016) Spermiotoxicity of nickel nanoparticles in the marine invertebrate *Ciona intestinalis* (ascidians). *Nanotoxicology* **10**, 1096-1104.
3. Gallo A, Menezo Y, Dale B, Coppola G, Tosti E, **Boni, R** (2018) Metabolic enhancers supporting 1-carbon cycle affect sperm functionality: an in vitro comparative study. *Sci Rep* **8**(1), 11769
4. **Boni, R.** (2019) Heat stress, a serious threat to reproductive function in animals and humans. *Mol Reprod Dev* **86**(10):1307-1323.
5. Gallo A, Esposito MC, Cuccaro A, Buia MC, Tarallo A, Monfrecola V, Tosti E, **Boni, R** (2020) Adult exposure to acidified seawater influences sperm physiology in *Mytilus galloprovincialis*: Laboratory and in situ transplant experiments. *Environ Poll*, **265**, 115063.