



Elisabetta Tosti graduated with *Laude* in 1977 in Biology at the University of Napoli, “Federico II”. She has been a Senior Scientist and group leader for Biology of Reproduction and Marine Ecotoxicology in the BEOM Department of the Stazione Zoologica up to January 2021.

She received the National Scientific Qualification for full professor in the sector BIO/06 (Comparative anatomy and cytology). Member of the Editorial Board of the ISI journal “Marine Drugs”; Founder of the Italian Society on Embryology, Reproduction, and Research (SIERR).

Invited speaker at numerous congresses, conferences, and symposia. Contract professor at the University of Medicine, Naples. Coordinator and lecturer at Italian and international Masters and Summer Schools. Tutor, supervisor, and director of studies of numerous degree, PhD and post-doc students. Reviewer for Italian ministry and international grant assignment.

She is the author of more than 120 papers and reviews in international ISI journals, books and encyclopedia chapters, one book on fertilization, and guest editor of numerous special issues in ISI journals. H-index = 33, 10-index = 83; 3295 citations, orcid.org/0000-0002-3157-8628;

E. Tosti is a biologist of reproduction of marine organisms with expertise in gamete physiology, mechanism of maturation, activation, fertilization, and early development with a specific focus on the role of ion channels;

In 2010 she introduced ecotoxicology studies at the Stazione Zoologica investigating for the first time the ecological impact of environmental stressors, pollutants, and climate changes on the reproductive and developmental processes of different marine animal models.

Five relevant publications

Boni R, Gallo A, **Tosti E.** (2022)

Electrophysiology and Fluorescence Spectroscopy Approaches for Evaluating Gamete and Embryo Functionality in Animals and Humans.
Biomolecules, 12 (11), 1685

Tosti E, Boni R, Gallo A. (2022)

Pathophysiological Responses to Conotoxin Modulation of Voltage-Gated Ion Currents.
Marine Drugs, 20 (5), 282

Gallo A, Boni R, **Tosti E.** (2020)

Gamete quality in a multistressor environment.
Environment International, 138, 105627.

Gallo A, Manfra L. Boni R. Rotini A. Migliore L. **Tosti E.** (2018)

Cytotoxicity and genotoxicity of CuO nanoparticles in sea urchin spermatozoa through oxidative stress.
Environment International, 118: 325–333.

Tosti E, Ménéz Y. (2016)

Gamete activation: basic knowledge and clinical applications.
Human Reproduction Update, 22(4):420-439.