



## Basic and Applied Aspects of Incubation Oriented to the Needs of the Embryos

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### Message from the Collection Editor

Dear Colleagues,

The influence of environmental factors during prenatal development on phenotypic diversity across the lifespan is widely recognized, and the phenomena of fetal programming and vegetative imprinting have been studied in several animal species. Even in precocial birds, as all poultry species, environmental factors during incubation can determine the developmental trajectory throughout life.

Therefore, knowledge of embryonic development and organism-environment interactions is essential to optimize the incubation process to improve post-hatching robustness, adaptability, health, and ultimately to ensure primary performance and welfare.

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Hatchery environment, management of embryo development in conjunction with the physiological needs of the embryos become key factors in the poultry production chain. New approaches require new technical solutions and optimizations.

This Topical Collection will be dedicated to new developments in this broad field, both in basic and applied research.





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## Message from the Editor-in-Chief

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