

實驗雞隻照護及操作技術之優化

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摘要

實驗雞在科學研究的歷史進程中貢獻良多，除最為人熟知的疫苗研發，在神經學、肢體發育學及疾病模型也扮演不可或缺的角色，是鳥類中最常被使用的物種。實驗雞之照護重點，需自雞胚蛋保存、孵化條件掌握至雞隻飼育環境調節、照護觀察與飼養管理。良好的飼養照護可降低實驗雞隻緊迫，提升動物福祉及實驗可靠性。此外透過良好純熟之標記、保定、採血、人道終止等良好操作技術，可確保實驗結果的準確性和可重複性。實驗雞照護及操作技術優化不僅滿足科學研究的需求，同時重視對實驗動物的道德責任，藉此提升研究的可信度和實驗過程的倫理標準。

Optimization of Care and Use for Experimental Chickens

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Abstract

Experimental chickens have made significant contributions in the history of science. Apart from their well-known role in vaccine development, they have provided valuable insights in neurology, limb development, and disease modeling. Among bird species, chickens are the most commonly used in scientific research. The care of experimental chickens encompasses various aspects, including the preservation and incubation conditions of fertilized eggs, as well as adjustment of the rearing environment and feeding management for chickens.

Proper care and maintenance can reduce stress in experimental chickens, enhance animal welfare, and improve the reliability of experiments. Additionally, through proficient techniques such as proper marking, restraining, blood sampling, and euthanasia, the accuracy and repeatability of experimental results can be ensured. The optimization of care and operational techniques for experimental chickens not only meets the requirements of scientific research but also emphasizes ethical responsibility towards the experimental animals, thereby enhancing the credibility of research and ethical standards throughout the experimental process.