

# Review of: "Bioethical Assessment of Research with Humanoid or Humanized Biological Entities with Uncertain Moral Status"

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The present article delves into pertinent scientific insights concerning the biological nature of various human-nonhuman entities classified as problematic, along with the ethical evaluation of their production and utilization.

The article provides a comprehensive problem statement in the introduction. In the section "Human-animal Chimeras," the topic is addressed with precision, offering an excellent overview of methods and current research. Some clarifications could enhance readability, as unfamiliar readers may find themselves puzzled by technical terminology. The chapter, "Bioethical Assessment," delves into ethical questions, emphasizing the importance of clearly defining the moral status of an entity. This theme resonates throughout the ensuing chapters. Similarly, an ethical evaluation follows the chapters on "Other Human-Animal Mixtures," "Clonotes," "Parthenotes," and "Embryoids." All subchapters are well-structured and grounded in recent research. However, there is room for further elaboration in the "Bioethical Assessment" sections. It could be advantageous to introduce an extra subsection within the introduction to delve into the bioethical criteria utilized for evaluation.

The conclusion underscores that bioethical debates and corresponding regulations should aspire to provide effective guidance, steering developments not only based on biomedical but also ethical criteria. To what extent do these references encompass bioethical discussions in various countries? For instance, there exists Islamic bioethics, characterized by its unique criteria (and challenges). Nevertheless, the creation of chimeras at a national level holds global ramifications.

The conclusion underscores the importance of delineating boundaries, prompting an inquiry: Why is it essential to uphold established biological categories? How does this connect to the ethical acceptability of generating such entities and utilizing them in experiments? In scenarios involving human cells, there should theoretically be no ambiguity concerning boundary delineation. However, we must contemplate the relevance of boundary demarcations to ethical deliberations. How does the moral standing align with the emerging prominence of Science and Technology Studies (STS) and Cyborg theories in ethical discourse?