

An Editorial View on the Latest Developments Regarding the Relevance of Xenobots in the Biomedical Research

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Abstract. *In this mini-review we will refer to some very modern perspectives regarding the latest developments regarding the relevance of Xenobots in the biomedical research. In this way, Xenobots are a real scientific enigma, halfway between frog and robot, and they're totally changing the way we think about life and machines. They're like a living, crawling puzzle that scientists are still trying to solve. Thus, we will try to cover aspects by mentioning the Half-frog, Half-robot status of the Xenobots, some ethical issues, their place in the nature and some future perspectives in this area.*

Key words: Xenobots, biomedical research, ethics

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1. The Bigger Picture: "Xenobots: Half-frog, Half-robot, Totally Weird"

Xenobots are a real scientific enigma, halfway between frog and robot, and they're totally changing the way we think about life and machines. They're like a living, crawling puzzle that scientists are still trying to solve. It's more than just making weird, self-healing robots. It's about comprehending life itself - how organisms form, develop and interact. Xenobots thus represent a testing ground for scientists keen to explore the delicate balance between biology and technology.

2. Xenobots are like the pages of a book, assembled from the living words of nature

Xenobots are like the pages of a book, composed from the living words of nature. Just as a book transforms the raw materials of wood into a vessel of knowledge, xenobots reshape the basic cells of African clawed frogs into entirely new life forms. These fascinating entities blur the boundaries between traditional machines and living organisms. They're neither frogs nor robots ; they represent an entirely new category of programmable organism. Like the pages of a book