

Review Paper on Recent Advances of Biotechnology Application to Aquaculture Development

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Abstract:- Recent advances in biotechnology have significantly impacted aquaculture production, revolutionizing the industry, which explores key developments in applying biotechnological tools to enhance various aspects of aquaculture. Molecular techniques, such as genetic manipulation, have enabled the selective breeding of fish for desirable traits, improving growth rates, disease resistance, and overall productivity. Furthermore, the application of advanced genomics and bioinformatics has facilitated the identification of specific genes associated with important traits, paving the way for precision breeding. Biotechnological interventions also extend to disease management in aquaculture. Novel diagnostic methods based on molecular biology enable early detection of pathogens, contributing to effective disease prevention and control. Vaccines developed through biotechnological approaches have shown promise in protecting aquatic species against various infections, reducing reliance on traditional antibiotics. Nutrition is another critical aspect benefiting from biotechnological advancements. Genetically engineered feed formulations, enriched with essential nutrients, enhance the overall health and growth of aquaculture species. Furthermore, by enhancing feed conversion efficiency and waste management, probiotics and prebiotics obtained from biotechnological processes aid in the development of sustainable and ecologically friendly practices. Aquaculture and biotechnology are integrated in environmental conservation and monitoring projects. Aquatic organisms are guaranteed ideal conditions through real-time water quality monitoring made possible by biosensors and molecular tools. Utilizing genetically engineered organisms, bioremediation techniques help to lessen the negative environmental effects of aquaculture operations. In conclusion, recent advances in biotechnology have propelled aquaculture towards a more sustainable, efficient, and environmentally conscious industry. The integration of molecular techniques, genetic manipulation, diagnostics, and environmental monitoring has opened new avenues for addressing challenges and optimizing production in aquaculture. The continued exploration and application of biotechnological tools hold great promise for the future of this crucial food production sector.

Keyword:- *Biotechnology, Recent Advances, Aquaculture and Development.*

I. INTRODUCTION

Due to overfishing, the productivity of numerous major fish stocks is fleetly declining, and given the current state of the world and terrain, further earnings aren't imaged (Dunham, 2004, another recent reference). Being the least precious source of beast protein, monoculture is still the world's stylish chance of producing enough fish to feed everyone (Aerni, 2004). still, the monoculture sector moment has to address the issues of creating commercially double product systems, lessening environmental effect, and enhancing public perception all at the same time while using lower land (Dunham, 2004). As the demand for aquacultured foods has grown, there has been a need for further effective product styles than the conventional bone, which have sustainability issues similar fish growth that's too sluggish and poor feed conversion. One of the most important ways to meet the expanding global population's unborn food demands is the creation of enhanced fish seed stocks that can lead to advanced fish product (FAO, 2007). A new avenue for the development of inheritable coffers in monoculture has been made possible by biotechnology. Monoculture can profit from the operation of inheritable technologies for a number of reasons, including increased productivity, marketability, culturability, and resource conservation (Moses et al., 2005). Fish husbandry is the most popular type of monoculture. It entails the marketable civilization of fish, generally for food, in fences, fish ponds, or ocean enclosures (FAO, 2010). The objects of monoculture can be added up as follows:- Producing abundant, nutrient- thick, protein-rich, and fluently digestible mortal food that will profit society as a total at low or reasonable costs;- Producing sportfish to support recreational fishing;- Producing baitfish for marketable and sport fisheries;- Producing cosmetic fish for aesthetic purposes;- Recycling organic waste; and- Producing artificial fish(Yemi, et al., 2008). The objectives of this study are to itemized the most and yet to be given utmost consideration aspects of recent biotechnology in to aquaculture practice in Nigeria, some of which will be *Transgenesis, Nanotechnology, Bioremediation, Gene manipulation and Hybridization.*

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