

SUSTAINABLE LIVELIHOOD GENERATION THROUGH TRIBAL AGRICULTURE AND FISHERIES: SCOPE FOR BIOTECHNOLOGICAL ADVANCEMENT

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Tribal and Indigenous communities strengthen economic, nutritional, and cultural resilience through small-scale agriculture and fisheries. Biotechnology can support these traditional systems when applied in culturally sensitive, community-led ways. In Odisha, low-density stocking of Indian Major Carps improved fish productivity, income, and household consumption. Carp mola polyculture further enhanced yields and women's participation. Similar initiatives among Adivasi households in Bangladesh increased income and dietary diversity. Integrating Indigenous knowledge with biotechnology can improve productivity, climate resilience, nutrition, and equitable governance while ensuring fair benefit-sharing and sustainable bioeconomy development.
