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Building Capacity for Home-grown **Biosciences Research** and Commercialization

The Africa Biosciences Hub (AfriBIOHub) is a center of competence in biotechnology hosted by Kenyatta University. It was established through the Feed the Future Striga Smart Sorghum for Africa project, a collaborative program between the International Service for the Acquisition of Agri-biotech Applications (ISAAA) AfriCenter, Kenyatta University, Addis Ababa University, Ethiopia's Bio and Emerging Technology Institute (BETin), and the African Agricultural Technology Foundation (AATF), with technical backstopping from Beneficial Bio Limited, United Kingdom. The AfriBIOHub is dedicated to establishing a technology platform that incoporates biology, intellectual property, hardware, policy, social science and economics, towards creating a sustainable, open and equitable bioeconomy in the region.

- Accelerate diffusion of biotechnology through provision of training and promotion of home-grown research & development activities in the region.
- Reduce cost of conducting biotechnology research by promoting local biomanufacturing of essential reagents and equipment.
- Nurture biotechnology start-ups through bioentrepreneurship training and mentoring Africa's rich pool of young early career scientists.





Current Projects & Activities

Enzyme Manufacturing MasterClass

In partnership with Beneficial Bio, AfriBIOHub has protocols and tools that can be used to optimize different aspects of the production of essential enzymes for use in teaching and research.

Plant Transformation

In partnership with a leading global crop science company, AfriBIOHub is developing an agribiotechnology platform to support application of the advanced biotechnology to local context through a flagship project Feed the Future Striga Smart Sorghum for Africa (SSSfA). The Project aims to develop and deploy of genome edited (GEd) demand-driven sorghum varieties resistant to Striga, a parasitic weed that adversely affects food and nutritional security in sub-Saharan Africa. The genome-editing platform will be made available to researchers for use in other crops.

Bioentrepreneurship Training & Mentoring Program

The bioentrepreneurship training and mentoring program aims to researchers and inventors in biosciences develop a roadmap to realize the socioeconomic and commercial potential of their innovations. Bioentrepreneurs receive training and guidance to discover, build and actualize their skills, talents and confidence, guided by a community of technical and business mentors. They complete the program by pitching commercialization plans to potential investors.

BioDesign MakerSpace

The AfriBIOHub houses a production unit that can supply common molecular biology reagents to hub users as well as a Biodesign Makerspace to locally design and fabricate simple molecular biology equipment such as gel imagers, gel electrophoresis tanks, magnetic separation beads and other simple equipment cutting on the prohibitive cost of purchasing them. The BiomakerSpace also has equipment for routine molecular biology activities that can be made available to rresearchers at a small fee.