



**Kuvu Bio Solutions, launched in 2023,
is a disruptive biological herbicide technology platform.**

- Tackling herbicide-resistant weeds
- Providing an organic and regenerative system
- Reducing GHG emissions and toxins created by the synthetic chemical herbicide industry

The innovation is one of the 1st bioherbicides to be commercialized in the world

Built on one of the world's first commercialized bioherbicides (www.toothpickproject.org targeting Striga witchweed, Africa's worst pest threat), our award-winning innovation's proof-of-concept was funded by the Gates Foundation in 2014-2015 and is currently supported by the UN World Food Program, Milken-Motsepe Prize for Agritech, Welthungerhilfe and DBU (German Environmental Foundation), USAID Feed-the-Future Innovation Lab, and UNDP. The pilot enterprise won the UN Food Systems Summit's Best Small Business Award.

Kuvu brings the technology to the US, to improve yield while tackling herbicide-resistant weeds and reducing pesticide-related green-house gas emissions. The frontrunner bioherbicide innovation is expected to gain significant traction in the \$35 billion weed management industry.

Kuvu is shortlisting some of the most problematic weeds in our initial R&D, including, broomrapes (orobanche), pigweed (Palmer amaranth), Canada thistle, field bindweed, poa annua, nutsedge, houndstongue, etc. The innovation is suitable for organic and regenerative agriculture, as well as conventional.

www.kuvubio.com



INNOVATION TRACTION

Kuvu Bio Solutions

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PUBLICATION:

Nzioki HS, Oyosi F, Morris C, Kaya E, Pilgeram A, Baker C, Sands D.C. 2016, [Striga biocontrol on a toothpick](#): A readily deployable and inexpensive method for smallholder farmers. *Frontiers in Plant Sci.* 7: Article 1121.

ALIGNMENT ORGANIZATIONS – TOOTHPICK PROJECT:

- World Food Program – Innovation Accelerator, Farm to Market Alliance, Cereal Growers Assoc.
- USAID Feed the Future Innovation Lab (Current and Emerging Pest Threats): PlantVillage, DreamTeam
- Kenya Agriculture and Livestock Research Organization
- Welthungerhilfe, with financial support from the German Environmental Foundation (DBU)
- UNDP – Ethiopia
- Research Organizations: Sudan, Ethiopia, Uganda, Tanzania, Zimbabwe, South Africa, Zambia, Cameroon, Benin, Ghana, Nigeria, Cote D'Ivoire, and Mali
- International Center for Genetic Engineering and Biotechnology (ICGEB)
- Montana Organic Education and Advisory Committee, Montana State University

MEDIA LINKS:

- [Demonstration plots](#) with Farm to Market Alliance, March 2021
- Food Planet Prize – Roads and Kingdoms Journal
- Sy Media [Sankalp Africa interview](#)
- PaAfrica Podcast: [Milken-Motsepe Interview](#)
- Plant Village - USAID "[How to control Striga weed](#)"
- [Kichawi Kill™: A Farmer's Perspective](#)
- [TEDxBozeman 2019](#)
- [2021 in Review](#)
- [BBC World News](#), April 5, 2021 – [David Sands full interview](#); Farmer [Marygoretty Chitira full interview](#)
- [2021 Regulatory Approval](#)
- [Kilimo news 2021](#)
- [Science training 2018](#) news video
- Welthungerhilfe [Partner Page](#)
- Welthungerhilfe [90 second video](#)
- [IFAD Rural Solutions Portal](#)
- 2020 New Ag International/Biocontrol Africa
- Boundless Impact: [Dave](#) and [Claire](#)

PRIZES, AWARDS, ACCOMPLISHMENTS:

- 2023 [Food Plant Prize Finalist](#)
- 2023 Kraft-Heinz Innovation Finalist, Future Food-Tech Summit
- 2023 Montana Dept. of Agriculture [Growth Through Agriculture](#) Awardee
- 2023 Montana Agritech Summit, Innovation Finalist
- 2022 [Milken-Motsepe Agritech Prize](#) Finalist (inaugural year, winners announced in 2023)
- 2022 Global Innovation Catalyst IX Stanford University online (Go-To-Market strategy)
- 2022 World Food Program Innovation Accelerator and WFP Sprint: [Climate Smart Solutions](#)
- [UN Best Small Business Winner](#) "Good Food for All" (this included participation in the UN CEO Consultation, representing Small-Medium Enterprises). Interview in [Africa Agribusiness](#)
- 2021 IFT [Seeding the Future Global Food System Finalist](#)
- 2020+ [UNDP Cultiv@te Programme](#) – UNDP Ethiopia
- 2020 [MacArthur Foundation Bold Solutions Network](#)
- 2020 Roddenberry Catalyst Award
- 2019 [XPRIZE](#) Future of Food Roadmap team
- 2018 Moonshot House Fellow - Mozambique, Kravis Lab for Social Impact, Claremont McKenna
- [2017 MassChallenge Finalist](#)
- 2017 Blackstone Launchpad 406Labs, Charter Entrepreneur: [Mini-Silicon Chronicle Article](#)
- [2017 Buckminster Fuller Catalyst Program](#)



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