



# **Farm Safi Shines at Africa Regional Finals of the China International Innovation Competition 2025**

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*Prepared by: [Your Name/Organization]*

Farm Safi is proud to announce its recent success at the Africa Regional Finals of the China International Innovation Competition 2025, where our team was awarded the Bronze Medal. This prestigious recognition was earned within the framework of the "High-quality joint development of the Belt and Road Initiative," highlighting our commitment to advancing agricultural excellence through international collaboration and scientific rigor. Our award-winning presentation focused on the transformative application of Molecular Markers and Biotechnology to revolutionize tomato cultivation and breeding systems.



At the core of our innovation is the use of Molecular Marker-Assisted Selection (MAS), a biotechnological approach that allows for the precise identification of superior genetic traits in tomatoes at the seedling stage. By analyzing specific DNA sequences associated with high yield, extended shelf-life, and nutritional density, Farm Safi has moved beyond traditional breeding limitations. This technology enables us to develop tomato varieties that are naturally resilient to devastating local pathogens—such as Bacterial Wilt and Tomato Leaf Miner (*Tuta absoluta*)—significantly reducing the reliance on chemical pesticides and ensuring a safer product for consumers.

## Core team Members



**Tracyline Jayo Manyasi**

- Fingermillet production-Msc
- 2 SCI papers
- production-PhD
- technical assistance, production scheduling



**Ruth Auma Obara**

- Seed production-Msc
- Beans expert
- product development
- market research



**Alex Kilonzo Kaseve**

- Agriculture-Bsc
- financial supervisor
- financial management



**Mercy Chelimo**

- Horticulture-Bsc
- technical assistance
- sales director

Furthermore, our presentation detailed the integration of advanced biotechnology to combat the increasing challenges of climate change. Through genomic profiling, we are identifying and propagating tomato lines with enhanced heat and drought tolerance, ensuring stable production cycles even in volatile environments. This scientific milestone is not restricted to the laboratory; it is being actively translated into practical knowledge. As part of our mission, these innovations are being integrated into the regular training programs held at our Demonstration Farms, empowering local growers with the high-tech tools necessary to compete in a globalized market.



This Bronze Medal underscores Farm Safi's position as a leader in the "High-quality joint development" of the agricultural sector. We remain dedicated to bridging the gap between molecular science and field-level productivity, ensuring that the future of tomato farming in the region is sustainable, data-driven, and highly productive. We extend our gratitude to the competition organizers and our partners for recognizing our efforts to bring world-class biotechnology to the heart of African agriculture.