



CSIR-CROPS RESEARCH INSTITUTE

RESEARCH FOR DEVELOPMENT



WELCOME ADDRESS

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CSIR-Crops Research Institute, Kumasi, Ghana.

BACKGROUND

CSIR-CRI is a key and dependable national agricultural research institution in Ghana's agenda to become a middle income country because of the following attributes:

- Ability to develop technologies to satisfy client /market demands.
- Multi-disciplinary team of scientists committed to national and institutional development
- Participatory research approach involving Farmers, Agro-industrialists, Exporters, Extension workers, Policy makers and Donors
- Strategic location. Fumesua (Headquart), with Kwadaso, Ejura, Assin Fosu, Anyinase, Pokuase, Ohawu, Kpeve as outstations in the various agro-ecological zones
- Achievements include Gold Award for being the Best National Agric. Res. Institution in Ghana.

Organizational Chart

MINISTRY OF ENVIRONMENT, SCIENCE AND TECHNOLOGY

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR)

CSIR-CROPS RESEARCH INSTITUTE

TWELVE OTHER CSIR INSTITUTES

CSIR-Crops resEarch institute

CSIR-CRI is currently the largest of the 13 Institutes of Ghana's Council for Scientific and Industrial Research (CSIR), which co-ordinates scientific research for national development.

Our Vision is to become a **centre of excellence for innovative and quality agricultural research for development and**
Our Mission is to develop and disseminate appropriate technologies for high and sustainable food and industrial crop production

CSIR-CRI's research and development activities are directed to meet the needs of clients (farmers, consumers, agro-based industries including the private sector), and other stakeholders through:

- development of quality, client/market-targeted crop varieties for direct consumption and industrial processing through innovative and participatory research.
- development and dissemination of appropriate, impact-oriented and cost-effective technologies for high and sustainable crop productivity.

RESEARCH PROGRAMMES

1. MAIZE IMPROVEMENT

2. LEGUMES IMPROVEMENT

3. RICE IMPROVEMENT

4. SEED TECHNOLOGY

5. ROOT & TUBER CROPS IMPROVEMENT

6. HORTICULTURAL CROPS IMPROVEMENT

7. RESOURCE & CROP MANAGEMENT

8. PLANT HEALTH

9. BIOCHEM. /BIOTECH. AND POST HARVEST

10. SOCIO-ECONOMICS

11. BIOMETRICS

THERE ARE ALSO TRAINING, COMMUNICATION AND COMMERCIAL ACTIVITIES

THESE PROGRAMMES ARE CARRIED OUT BY A
MULTIDISCIPLINARY TEAM OF SCIENTISTS MADE UP OF

PHDs -25,
MSc – 39,
BSc /BA -23

AND OTHER SUPPORT STAFF

Mandate crops include:

- **LEGUMES**
(cowpea, soybean, groundnut, bambara groundnut)
- **CEREALS** (Maize and rice)
- **ROOTS AND TUBERS**
(yam, cocoyam, taro, cassava, frafra potato and sweet potato)
- **VEGETABLES**
(pepper, garden eggs, tomato, onion, leafy vegetables)
- **TROPICAL FRUITS** (Plantain, banana, citrus, mango, avocado, pineapple, cashew, pawpaw)

Clients

- **Ministry of Food and Agriculture (MOFA)**
- **Ministry of Education**
- **Ministry of Health**
- **Grains and Legumes Development Board (GLDB)**
- **Seed Producers Association of Ghana (SEEDPAG)**
- **Ghana Agri-Inputs Dealers Association (GAIDA)**

- **Farmers and Consumers**
- **Vegetable Producers and Exporters Association of Ghana (VEPEAG)**
- **Horticulture Export Industry Initiative (HEII)**
- **Exporters of Tropical Fruits**
- **Ghana Export Promotion Council (GEPC)**
- **Non-Governmental Organizations (NGOs)**

- **District Assemblies**
- **Industries (NESTLE, GAFCO, Cocoa Processing Company, ASCo, Cassava Processors, Fruit Juice Producers, Vegetable Oil Producers)**
- **Poultry and Livestock Farmers)**

SWEETPOTATO RESEARCH AT CSIR-CRI

Under WAAPP the following are underway:

1. Development of high and stable yielding consumer accepted sweetpotato varieties.
2. Production and distribution of healthy primary (breeder) planting materials.
3. Promotion of sweetpotato utilization (Product development).
4. Studies on the availability, marketing and consumption of sweetpotato in Ghana.
5. CIP has recently added Establishment of Sweetpotato Support Platform(SSP)



ACHIEVEMENTS

Beginning with 3 varieties in 1998 CSIR-CRI has Released and Disseminated Seven

- **high and stable yielding**
- **consumer acceptable varieties with industrial attributes**
- **tolerant to biotic and abiotic stresses**

These 4 were released in (2005)



CRI-Apomden:

- Pot. yield – 35 t/ha.
- High B-carotene (vit. A) content



CRI-Otoo:

- Pot. yield 23 t/ha.
- Medium B-carotene (Vit A) content



CRI-High starch:

- Pot. Yield – 18 t/ha.
- 21% starch.
- Good for fufu, ampesi and industrial uses



CRI-Ogyefo:

- Pot. Yield – 20 t/ha.
- 12.4% starch content.
- Excellent for ampesi and fried chips

AT LEAST 2 ARE IN THE PIPE-LINE TO BE RELEASED

POST HARVEST RESEARCH

Innovative products from Sweetpotato developed at
CRI



Sweetpotato's potential in the Ghanaian food industry



Collaborating Institutions

- **Sister CSIR Institutes - PGRRI, FRI, SRI**
- **Biochemistry and Biotechnology Dept., KNUST**
- **Ministry of Food and Agriculture (MOFA).**
- **Ministry of Health – Nutrition Dept.**
- **NGOs**
- **Farmers/FBOs/Farmer Groups**
- **International Potato Centre (CIP), Peru**

Staff strength

Breeding	2
Agronomy	1
Virology	1
Pathology	1
Food Science (Post-harvest)	1
Tissue Culture	1
Molecular Biology	1
Socio-economics	1
Weed Science	1
Biometrics	1
Technicians	2

Sweetpotato Action for Security and Health in Africa (SASHA): Charity for Mama Africa

- To invest in breeding, seed systems and sweetpotato stakeholders' capacities in 17 Sub-Saharan Africa countries.
- In 10 years, 10 million families enhance
 - ✓ crop income 15%
 - ✓ diet quality 20%
- By increasing
 - ✓ output and intake
 - ✓ diversifying use
 - ✓ building gender-equitable market chains.



•Let us all support SASHA for Mama Africa

•Enjoy your stay





“Akwaaba”

