

African Union
Scientific Technical Research Commission



**African Scientific
Research and
Innovation Council**

**AFRICA'S INDIGENOUS KNOWLEDGE TO
PREVENTING AND CONTROLLING
EMERGING INFECTIOUS DISEASES LIKE
COVID-19 PANDEMIC: UTILIZING AFRO-
CENTRIC RESPONSE**



**ASRIC STI STRATEGIC INTERVENTION FOR
COVID -19**

**A Report Presented by Prof Kenneth Yongabi Anchang, Imo State
University, Owerri, Nigeria**

**Coordinator of the AU-ASRIC Afro-Centric working group for
colloquium on December 15th- 17th, 2020**

PRESENTATION LAYOUT

- ✓ **Presentation of the Research Team (AU-ASRIC Afro-centric Working Group on COVID-19)**
- ✓ **An excerpt of the Terms of Reference (TOR) for the Working Group**
- ✓ **Reference to the Global and Continental Epidemiological picture of Covid-19 pandemic, Lassa fever, Ebola, and Yellow fever**
- ✓ **A highlight on the identified licensed antiviral, immune booster products for other viral infections repurposed for COVID-19**
- ✓ **Medicinal plant with antiviral and immune boosting agents identified in literature review with potential for Covid 19 management**
- ✓ **Addressing WASH and COVID-19 through African based technologies for water treatment**
- ✓ **SOPs for community driven public health for COVID 19 management in Africa**
- ✓ **Publications, media, new courses identified**

OBJECTIVE

To Develop Guideline
on Research Translation

MANDATE

Traditional medicine intervention to Covid-19 pandemic, this is thorough the following actions: Compile a compendium of plants through a systematic review of literature on published works on antiviral medicinal plants with view to selecting potent plants for large scale biopharmaceutical production (**Short term goal**);

Identify quinolines alkaloid analogues from local medicinal plants in Africa used in treating fever and flu indigenous to Africa, and test their efficacies against COVID 19, Ebola, yellow and Lassa fever (short term goal);

- Identify already licensed African based herbal products for boosting the immune system and engage in clinical trials against COVID 19, Lassa fever and Ebola (by determining, establish and codify an Afro-standard for herbal extracts, products and derived supplements which meets or exceeds international standards) (Short term Goals)

MANDATE

OBJECTIVE

To Develop
Guideline on
Research
Translation

Posting community prevention measures Covid-19 pandemic, this is thorough the following actions: Identify selected antiseptic plants and locally source materials to produce disinfectants for hand sanitizers; standardization for manufacturers of hand sanitizers taking in to consideration production from locally available materials in Africa (from Africa's unique bio-cultural diversity) efficacy, safety, and availability (short term goals)

Produce standard operating procedures (SoPs) for the production, efficacy, safety and quality control for the use of hand sanitizers in Africa. Hand sanitizers production that have broad spectrum for DNA and RNA viruses (SOPs and usage and safety) (Long term Goals)

Propose a community strategic guideline for prevention of COVID 19 as well as Lassa and Ebola in rural and semi urban Africa (Short term goals)

Work out the production of simple face masks with the precise filter size with appropriate filter size for filtration of COVID 19 (Long term goals)

Screen the selected antiviral plants vis-a-vis standard controls against COVID 19 using proxy models and run randomized control clinical trials on extracts and products found to be effective in vitro (Long Term Goals)

Develop unique afro centric policy brief and policy guideline for the integration model for integrated hospitals in Africa that combine Orthodox and Complementary medicine (Long term goals)

AFRO-CENTRIC WORKING GROUP MEMBERS



Prof. Kenneth Anchang Yongabi
Coordinator, Nigeria



**Dr. Amira Adel Taha Abdel Aleem
AL-Hosary, Egypt**



Mr Enock Mac'Ouma, Kenya



Dr Joseph Nicalao Otieno
Tanzania



Prof Percy Chimwamurombe
Namibia

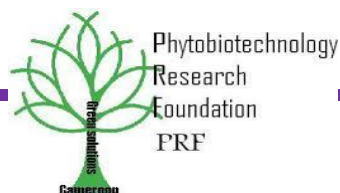


**Prof. Ester
Innocent, Tanzania**



Mr Gideon Adotey, Ghana.

AFRO-CENTRIC WORKING GROUP MEMBERS



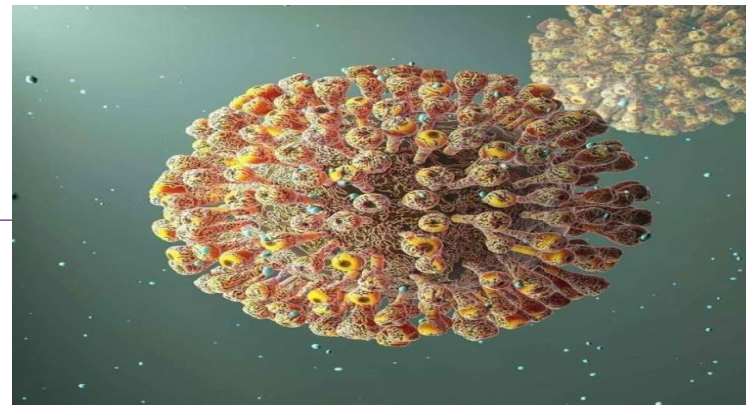
Phytobiotechnology Research Foundation (PRF) Africa (Central Africa) is a Non Governmental organization registered with the Cameroon in Central Africa Government (CIG Reg. No: NW/GP/29/07/10856). Phytobiotechnology Research Foundation is a NON-Governmental research based organization, registered with the Cameroon government CIG Reg. NW/GP/27/07/10859 and 0068/E.29/1111/Vol.8/APPB and registered with the European UNION: Euroaid No: 958820266. It was registered in May 2007; registration is in accord with the Cameroon Government Provision of law No. 92/006 of August 14 and its decree of implementation No. 92/455/pm of November 23rd, 1992.



**Mr Nkwenti Collins, PRF Team African
Diaspora**

**Mr Fru Ernesto, PRF Team
(Diaspora, USA)**

Global COVID-19



- Since the beginning of the pandemic in 29 December 2019 Chinese authorities identified a cluster of similar cases of [pneumonia](#) in the city of Wuhan.
- On 11th March 2020 , WHO declares the COVID-19 Pandemic as of the disease spread to the world reaching more than 118,000 cases and 4,291 lives lost.
- Since then the disease gradually spread to the world reaching lost of lives. Refer to Africa CDC on continental updates on COVID 19 and other infectious diseases (<https://africacdc.org/>)
- Refer to John Hopkins (<https://coronavirus.jhu.edu/map.html>) for Global updates on COVID-19
- Refer to WHO (<https://www.who.int/emergencies/diseases/novel-coronavirus-2019?adgroupsurvey=>)

OUTPUT 1

Traditional Medicines Claimed for ~~COVID-19~~ symptoms and identified medicinal

COVIC Organics from Madagascar (not extensively Validated)

Kleda s formula from Cameroon (not extensively validated)

Pax herbals from Nigeria (Fast tracked listing by NAFDAC based on toxicology only)

Ruzu herbals from Nigeria (Listed by NAFDAC not for COVID -19 nor Viral Infections)

Many others from east, central , south, west and North Africa (level of local claims)

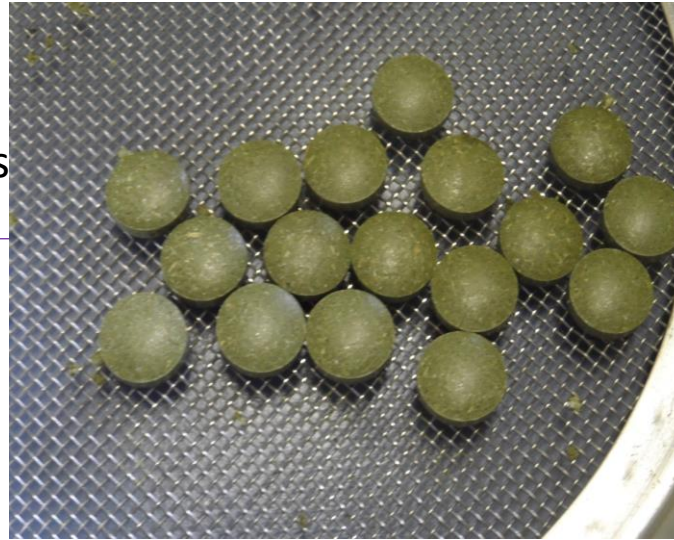
We noted: Safety, Efficacy and Quality (SEQ) profiling is lacking

We noted plants with alkaloids similar to Quinine similar to Cinchona: **Aloe barbadensis, Vernonia species**

Disthemanthus bentamianus, Artemisia annua, A abstenii, Curcumis longa Azidiracthcha, indica, ***Vernonia amygdalina, Moringa oleifera, Minth (Mentha).Allium sativium, Clove (Syzygium aromaticum), Garcinia kola***

Others identified plants: Pleurotus ostreatus, Ganoderma lucidum, Zingiber officinalis, cloves, coffea robusta, Theobroma cacao, occimum gratissimum, (attention was paid to anecdotal uses and traditional knowledge of uses and widespread across Africa

Moringa PCM Tablets at PRF labs Cameroon



Potentiating existing drugs with
phytomaterial: Case of Garcinone and
Moringinine and Gingerone (Azithromycine,

Atehbiotiks syrups at PRF
labs Cameroon





4. SOLANUM NIGRUM(100MG) BLACK NIGHTSHADE, CENTRAL SOUTH AND WEST AFRICA, ASIA, AMERICA, SOLANACEAE



BMEDICINALLY USED IN THE MANAGEMENT OF SEVERAL AILMENTS, SUCH AS PNEUMONIA ACHING TEETH, STOMACHE ACHE, TONSILITIS, WING WORMS, PAIN, INFLAMMATION, FEVER, TUMOR, AS TONIC, AS ANTIOXIDANT, AS ANTI-INFLAMMATORY, AS HEPAPROTECTIVE, AS DIURETIC, AND AS ANTIPYRETIC

ZN MICROELEMENT, POLYPHENOLS, FLAVONES,ANTIOXIDANTS, REDUCES OXIDATIVE STRESS, COGNITIVE AND NEUROCHEMICAL DAMAGE

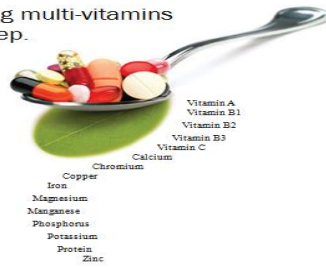
NEUTRACEUTICALS FUNCTIONAL FOOD TO PREVENT ALZEIHMERANTIPYRETIC, DIURETIC, ANTICANCER, AND HEPATOPROTECTIVE EFFECTSTHE POLYPHENOLS AND ANTHOCYANIDIN IN VARIOUS PARTS OF THE SN PLANT WERE ANALYZED BY HPLUTEOLIN, APIGENIN, KAEMPFEROL, AND *M*-COUMARIC ACIDL

Spirulina platensis for immune boosting ,PRF initiative (Proposed)

- Present in lake chad ,north of Cameroon.spirulina grows on waste water and water can be treated with Moringa coagulant,phytonutrients for medicinal value (Pics not from PRF)



growing multi-vitamins
doorstep.



Tiny leaves.
Enormous Benefits.

7 times the Vitamin C of Oranges

4 times the Vitamin A of Carrots

4 times the Calcium of Milk

3 times the Potassium of Bananas

2 times the Protein of Yogurt





Other sources of Traditional Medicine and healing foods: Edible insects identified





OUTPUT 2

Licensed African based herbal products for boosting the immune system and engage in clinical trials against COVID 19, Lassa fever and Ebola **FOR AU MEMBER STATES**

Safety profiles (toxicity, acute and subacute, phytonutrients, bioactive fractions) using in vitro and ex vivo mammalian models by the researcher and the regulatory institution

Efficacy profiling (antioxidant, immune stimulatory activity, antiviral, antimicrobial, antiinflammatory, antipyretic,) in vitro and ex vivo models, exit poll clinical trials, clinical trials, long time community use (anecdotal)

Quality (preparation and production, microbial quality, heavy metals, pesticides, type of water used, extraction and solvent residues, GMP, HACCP, GCP, PH, RF, TLC, OD, spectrophotometric analyses, sieving and particle size, production pavilion, packaging, shelf life, Availability , production chain, cost and conservation (Essential medicinal plant list)

 **STK**
BIOTECH
Boosters



STK Boosters

40 capsule per container

Each Capsule is 500 mg

Purely and organically extracted from herbs with rigorous studies on evidence based research.

Highly effective with minimal side effects

Indicated for patients with Immune suppression diseases such as cancer. A co-support to patients on chemotherapy.

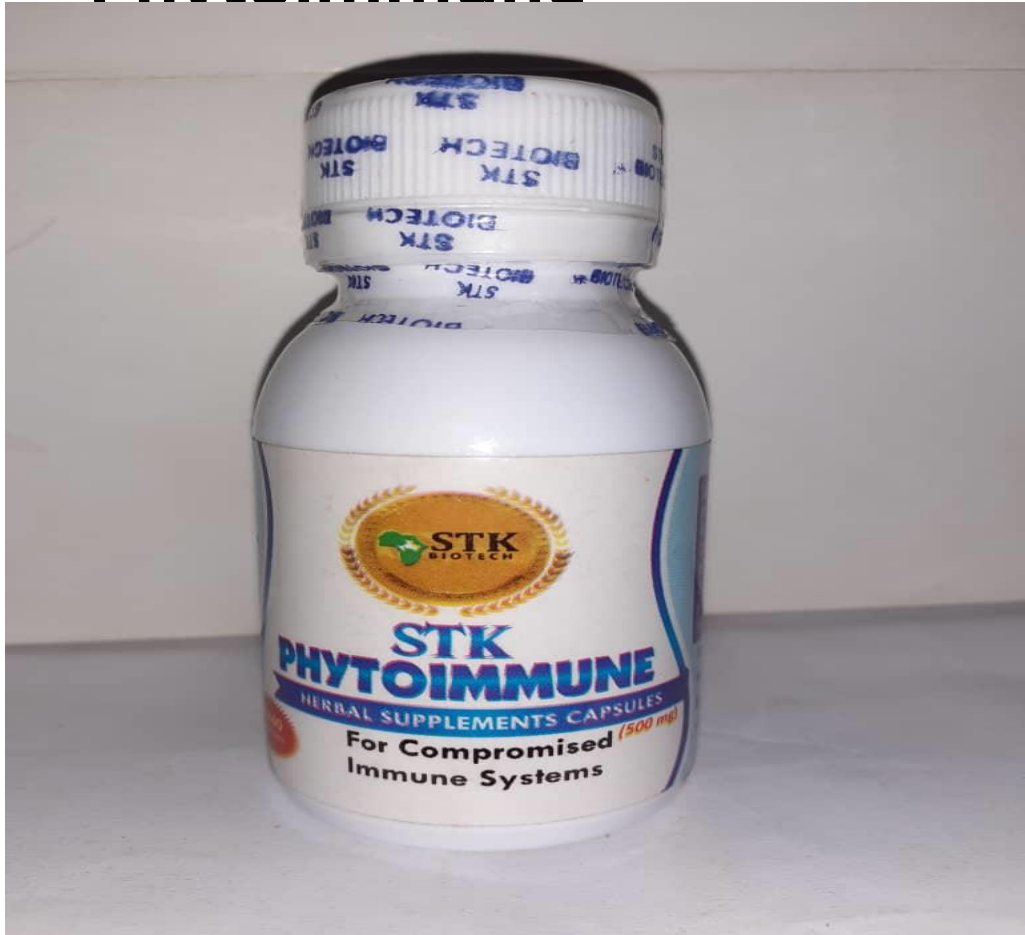
Cleanses off the side effects of chemotherapy.



NAFDAC REG NO. A7-2670L



Phytoimmune



NAFDAC REG NO. A7-2698L

STK Phytoimmune

40 capsule per container

Each Capsule is 500 mg

Purely and organically extracted from herbs with rigorous studies on evidence based research
Highly effective with minimal side effects
Indicated for patients with immune deficiency diseases, also indicated for Opportunistic cancers and malignancies such as Kaposi Sarcoma due immune deficiency syndrome. Cleanses the liver and kidney of synthetic drug residues.



NAFDAC Licence

INDEX NO: _____
LISTING NO: **A7-2698L**

CERT. NO: 00000525
PRODUCT PIN NO. _____
APPLICANT TIN NO. _____



**NATIONAL AGENCY FOR FOOD AND DRUG
ADMINISTRATION AND CONTROL (NAFDAC)**

Certificate of Listing
is hereby granted in respect of
STK PHYTOMUNE HERBAL SUPPLEMENT CAPSULES

Product
STK BIOTECH LIMITED,
CHIEF STANLEY UKAGA'S COMPOUND, UMUALUM URATTA , OWERRI NORTH L.G.A.
IMO STATE

Name & Address of Company/Applicant
STK BIOTECH LIMITED,
CHIEF STANLEY UKAGA'S COMPOUND, UMUALUM URATTA , OWERRI NORTH L.G.A.
IMO STATE

Name & Address of Manufacturer

Additional Manufacturing Sites

This certificate expires on 19TH DECEMBER, 2020
Dated this 20TH Day of DECEMBER, 2018



Director - General
(NAFDAC)



INDEX NO: _____
LISTING NO: **A7-2697L**

CERT. NO: 00000526
PRODUCT PIN NO. _____
APPLICANT TIN NO. _____



**NATIONAL AGENCY FOR FOOD AND DRUG
ADMINISTRATION AND CONTROL (NAFDAC)**

Certificate of Listing
is hereby granted in respect of
STK BOOSTERS HERBAL SUPPLEMENT CAPSULES

Product
STK BIOTECH LIMITED,
CHIEF STANLEY UKAGA'S COMPOUND, UMUALUM URATTA , OWERRI NORTH L.G.A.
IMO STATE

Name & Address of Company/Applicant
STK BIOTECH LIMITED,
CHIEF STANLEY UKAGA'S COMPOUND, UMUALUM URATTA , OWERRI NORTH L.G.A.
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This lady was tested with antibodies for HIV 1, 13 months later she was found without the antibodies.

Low levels of Serum albumins corresponds with declining levels of antibodies and concomitantly Low viral loads

- Patient was tested positive for HIV 1 antibodies, followed Kaybiotics therapy ,9months later he was not found with the antibodies see the band on the kit at the start *top* and at the end*bottom*



Mean serum albumin value = 3.2 g/dl (NR =3.4 to 5.4 g/dl) increase to 4.5 g/dl, mean body weight =50kg increase to 60kg , mean CD4 cells of 198 cells/mm3 increase to 419 cells/mm3 in 3 months amongst HIV/AIDS patients, high enough to protect patients from AIDS defining diseases.



Professor Kenneth Yongabi Anchang
Phytobiotechnology Research Foundation Institute (PRF)
Catholic University of Cameroon, Cameroon
yongabi@kaybiotics.com

Biography!
Dr. Kenneth Yongabi Anchang is a medical science expert and an Associate Professor with a PhD and D.Sc in Public Health Infectiology and a PhD in Biomedical Engineering. Kenneth is also a practicing Naturopath Doctor and member of the American Naturopathic Medical Association. His medical practice has been highly focused on a holistic integrative medicine with particular attention to African indigenous medical approaches. To this effect, he is a member of the Cameroon National Council for traditional doctors and coordinates research in traditional medicine for cancer treatment. He lectures on naturopathic medicine, public health engineering, and clinical microbiology in many local and international institutions, and he is a faculty member at the School of Health and Medical Sciences at the Catholic University of Cameroon in Bamenda where he doubles as Director of Research. He received his undergraduate and Post graduate studies at Abubakar Tafawa Balewa University in Nigeria where he also lectured for five years and coordinated research at the University's multidisciplinary ZERI Research Centre. He has a strong background in the prognosis, diagnosis, and treatment of tropical infections with the application of antibiotics and natural products, and he runs a clinic in integrative medicine. He founded the Phytobiotechnology Research Foundation and Clinics in 2007. He was the first to use the word Phytobiotechnology as well as associated terms like Phytodisinfectants and phytocoagulants. He was a member of the Infectious Disease Society of America (IDSA) in 2007-2009. His expertise spans across clinical medicine, clinical microbiology, biotechnology, bioengineering, biochemical and public health engineering, chemical engineering, and African indigenous knowledge and ethnomedicine. During the last fifteen years, Kenneth has been testing the scientific validity of ethnomedical practices amongst tribes in Africa. Some of Dr. Yongabi's current areas of research are the antibiotic resistance study in the tropics as well as prospecting new antimicrobial substances from medicinal higher and lower plants and microbes from extreme environments against HIV/AIDS, cancer, hepatitis, and typhoid infections in Cameroon. He is also the principal leader on some of the projects that members of his foundation are undertaking, which include mushroom cultivation, integrated fish farming, and small scale biogas digesters to harness cooking fuel from agrowastes. Some of these projects at the foundation have generated small scale social enterprises among a number of women's groups. He supervises a number of masters and PhD research works on cryptosporidiosis, public health water purification, and fungal infections and its prevalence among HIV/AIDS patients in sub-Saharan Africa. Kenneth has more than seventy-five peer-reviewed journal articles in both local and international journals, two books published in Germany and the United States of America, four scholarly book chapters, more than thirty conference articles, technical papers, and monographs, an invited chapter in the UNESCO Encyclopedia of Life Support Systems, and many invited international lectures. Professor Yongabi also consults for a number of research institutions and serves as an external examiner for some African universities and a consultant to many non-governmental organizations across Africa and overseas.



Application of Phytobiotechnology in the Control of Tropical Infectious Diseases

Z O N A B I O T E C H N O L O G Y

Application of Phytobiotechnology in the Control of Tropical Infectious Diseases

Kenneth Yongabi Anchang, Ph.D.

Biotechnology in Agriculture, Industry and Medicine

NOVA

Total No. Of Patients HIV/AIDS 930 (100%) Total No of females with HIV/AIDS 530 (56.98%)
400 (43.0%)

INDEX NO: _____ CERT. NO: 00000524

LISTING NO: **A7-2699L**  PRODUCT PIN NO. _____

APPLICANT TIN NO. _____

**NATIONAL AGENCY FOR FOOD AND DRUG
ADMINISTRATION AND CONTROL (NAFDAC)**

Certificate of Listing
is hereby granted in respect of
STK HEPATOZONE HERBAL SUPPLEMENT CAPSULES

Product
STK BIOTECH LIMITED,

CHIEF STANLEY UKAGA'S COMPOUND, UMUALUM URATTA, OWERRI NORTH L.G.A.
IMO STATE

Name & Address of Company/Applicant
STK BIOTECH LIMITED,
CHIEF STANLEY UKAGA'S COMPOUND, UMUALUM URATTA, OWERRI NORTH L.G.A.
IMO STATE

Name & Address of Manufacturer

Additional Manufacturing Sites

This certificate expires on 19TH DECEMBER, 2020

Dated this 20TH Day of DECEMBER, 2018

 
Director - General
(NAFDAC)






STK Hepatozone; A7-2699L

For viral Hepatitis B,C, D, A, E

Licensed for management of HPV related cancers and other cancers. Identified as underlying co-morbidity for COVID

INDEX NO:
LISTING NO: **A7-2696L**

CERT. NO: 0000527
PRODUCT PIN NO.
APPLICANT TIN NO.

 NATIONAL AGENCY FOR FOOD AND DRUG
ADMINISTRATION AND CONTROL (NAFDAC)

Certificate of Listing
is hereby granted in respect of
STK SKAN HERBAL SUPPLEMENT CAPSULES

Product
STK BIOTECH LIMITED,
CHIEF STANLEY UKAGA'S COMPOUND, UMUALUM URATTA, OWERRI NORTH L.G.A.
IMO STATE

Name & Address of Company/Applicant
STK BIOTECH LIMITED,
CHIEF STANLEY UKAGA'S COMPOUND, UMUALUM URATTA, OWERRI NORTH L.G.A.
IMO STATE

Name & Address of Manufacturer

Additional Manufacturing Sites

This certificate expires on 19TH DECEMBER, 2020
Dated this 20TH Day of DECEMBER, 2018

 
Director - General
(NAFDAC)



Key compounds and proposed mechanisms (See materials provided) STK Boosters and Phytoimmune

- **Marchantins** (novel marchantinone, Yongabi et al 2016.. Stimulates immune response (alpha interleukins and cytokines) provides immuneprotection (*Marchantia debilis*), stimulates production of Zinc which potentially blocks the COVID 19 replication
- **Beta glucans immune** stimulatory substance (*Pleurotus ostreatus* and *termitomyces titanicus*), also with essential amino acids, immune stimulatory
- Paradol from one of the extracts stops thromboxane synthetase (ant platelet agent)prevents thrombosis thus plays the function of acetyl salicylic acid (Aspirin) also antiinflammatory (enhances oxygen flow) prevents hypoxia in COVID 19 disease condition
- **Allicine and gingerone** and ellagitamins from *Allium sativum* antiviral and antipyretic reduces temperature and fever in COVID 19 disease condition.
- **Zinc , Magnesium and Iron, Selenium , Vit A, vit c** from *Moringa oleifera*, *Solanium nigrum*, *Theobroma cacao*, *Amaranthus* play the role of antioxidants, nutraceuticals and boost the immune system, fights anaemia (increase Hb and WBC as demonstrated during the ex vivo studies in mice and with patients taking the supplements for HIV
- **Epigallactins, catechins** from *camellia sinensis* and alkaloid Moriginine and peptide (less than 12Kdalton) antioxidant , reduces oxidative stress in COVID 19 patients, increases appetite.
- The components in the selected herbs and mushrooms have been identified with ample micronutrients, macronutrients, minerals, with well selected cereals and grains used as fillers and adjuvants . The mix of antioxidants, antiinflammatory, immune boosting, antiviral properties and the unique processing and extraction techniques, safety and efficacy makes these products viable option for large scale medical use in Africa/
- STK phytoimmune and STK boosters have demonstrated treating underlying co morbidities and risks for COVID 19 such as conditions with Hepatitis, Cancer, diabetes, and other immune suppressive conditions such as HIV/AIDS

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1. Amaranthus roots as diuretic and antijaundice Seven compounds, including two diglycoside flavonoids hesperidin (1) and rutin (2), one phenolic acid (E)-ferulic acid (3), two amino acids namely tyrosine (4) and arginine (5) and two sterols comprising spinasterol (6) and spinasterol 3-O- β -D-glucopyranoside (7) were isolated from the whole plant of **Amaranthus**

2. **Moringa Oeifera**

Moriginine alkaloid, peptides less than 12Kdalton

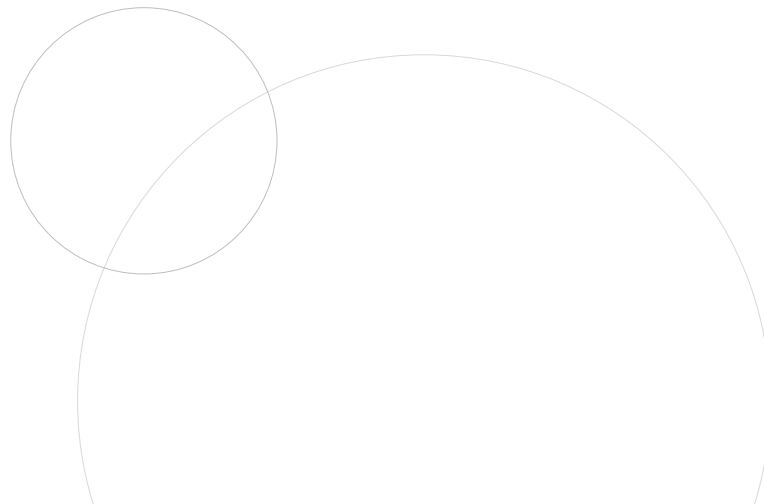
3. **Theobroma cacao.**

Although mainly cultivated for food **use**, **cacao** also has **medicinal uses**. It is used to stimulate the nervous system, lower blood pressure, dilates the coronary arteries, and soothes and softens damaged skin. It is also used against anemia, angina, bruises, chapped skin and burns, diarrhea, and leprosy spots.

Selected and Screened medicinal plants

- **STK PHYTOMUNE (500MG)**
- *Solanium nigrum* (100mg) whole
- *Zea mays* (75mg) (Red variety seed)
- *Pleurotus ostreatus* (125mg) whole
- *Camellia sinensis* (50mg) leaves
- *Marchantia debilis* (150mg) whole
-

- **STK BOOSTERS (500MG)**
- *Amaranthus spinosa* (125mg) whole
- *Vernonia cinerea* (100mg) whole
- *Cucurbita Maxima* (125mg) whole
- *Theobroma cacao* (75mg) seed
- *Moringa oleifera* (75mg) leaves
-
-
-

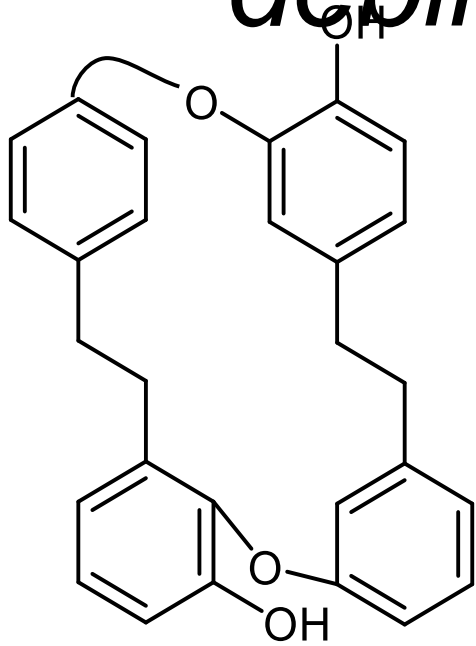


- To carry out a chemical analysis of the African *Liverwort-Marchantia debilis* Goebel from Cameroon using GC-MS and GC-MS.

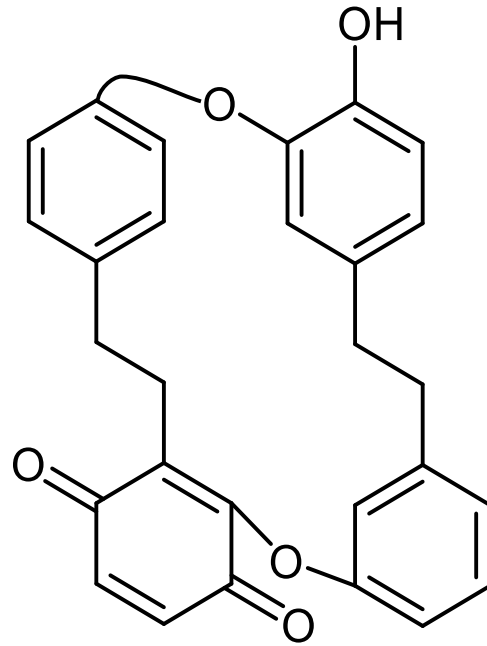


Bis-bibenzyls isolated from *Marchantia*

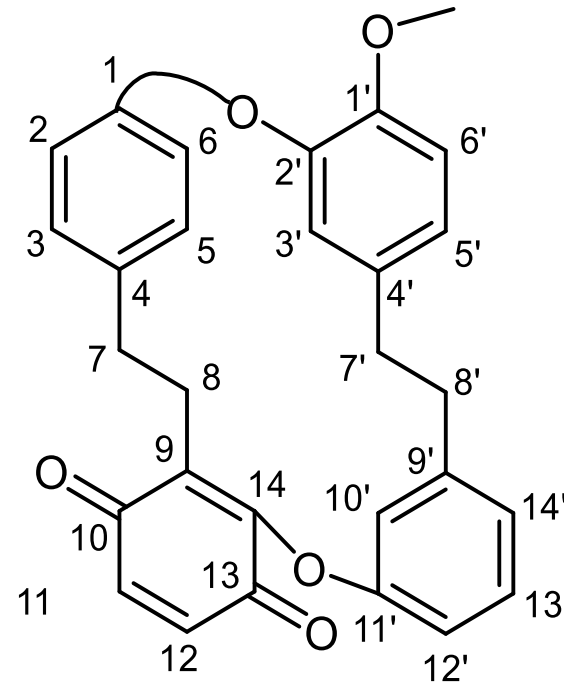
debilis



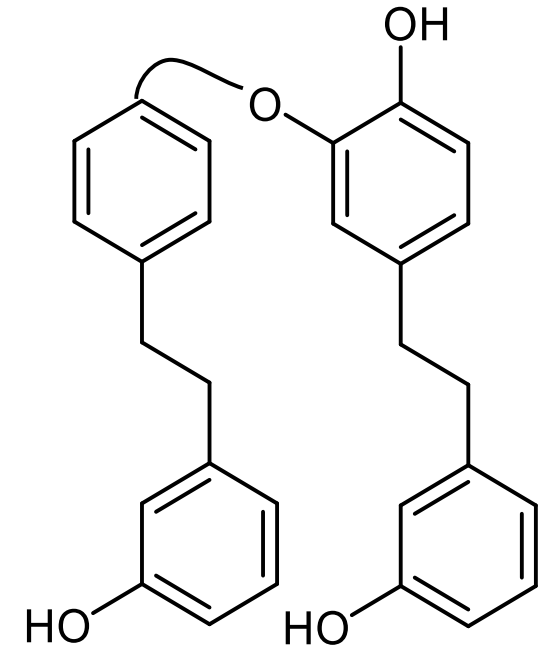
1 Marchantin C



2 Marchantin Q



3 Marchantinquinone-1'-methyl ether



4 Perrottetin E

Yongabi et al. 2016, NPC, Vol.11, No.9, PP 1317-1318

Domestication of Bryophyte marchantia using 10% sugar solution and observed growth for 6 months



1. Several Consultation with experts and researchers on the contribution of traditional medicine and COVID-19 in the African Region/Consultation sur la médecine traditionnelle 2 may 10 close to 190 participants

[**Afro-centric Health Literacy Intervention Strategies - World ...**](#)

[origin.who.int › working-groups › 13-s4-yongabi](#)

PDF

2. Many herbal claims across Africa, Madagascar, Cameroon, Senegal, Nigeria, etc (our Working Group)?? The problem... my views on the approach in the link:

[**COVID-19: The Best Solution Remains Evolutionary Learning ...**](#)

[headlines.ng › COVID-19](#)

Apr 17, 2020 - *Kenneth Anchang Yongabi* is a *Professor* of Public Health, Infectiology and Phytobiotechnology at the Imo State University, Owerri. He is a .

3. An African response strategy required .. AU most Credible to lead Africa (best options for now versus Vaccines??)

[**'Africa must combine modern, traditional medicine to combat ...**](#)

[thenationonlineng.net › africa-must-combine-modern-t](#)

Clinical trial: Randomized control placebo studies, design available. 25 -50 patients (COVID 19) or with symptoms across the regions of Africa (Central, South, North, East, West) required.

Packaging Room

Inkjet Labeling Machine

Laser Labeling Machine

Heat Gun

Farm House

Industrial Crushing Machine

Consulting Rooms

Examination Bed

Blood Pressure Monitor (2Nos)

Blood Sugar Tester

Generator House

110 KVA Perkins Diesel Generator

30KVA Perkins Diesel Generator

5KVA and 8KVA Firman Petrol Generators



Production line:GMP, GCL,
GMP, HACCP

Visit by Pharmaceutical Society of Nigeria (PSN) The president, Pharmaceutical Society of Nigeria PSN, *Professor Sam ... PSNPfizer Pharmaceuticals WestSTK HepatozoneNovartisKenneth Anchang Yongabi.* <https://www.newsbreak.com › news › imo-pharmacists-...>



Visit by National Institute for
Pharmaceutical Research (NIPRD) Abuja

[**FG Pledges to Lift STK Herbal Medicine, as NIPRD DG Tours ...**](#)

[https://www.thisdaylive.com › index.php
› 2019/12/28](https://www.thisdaylive.com › index.php › 2019/12/28)

Approved dosage by NAFDAC

One tablet (500mg) twice a day five days a week for 4 weeks (40 capsules per container) taken orally with water after meals. Patients advised to take a lot of fluids.

Complements other therapies but taken at least thirty minutes before or after any other synthetic drug.

Dosing also depends on the level of the disease and underlying clinical problems and must be supervised by a Physician.

For children and pregnant women, consult your

STK Boosters • **STK Loose-IT** • **STK Skan**
STK Hepatozone • **STK Phytomune** • **STK REV**

...your path to improved Health

HIGHLY EFFECTIVE WITH 100% ORGANIC ACTIVE INGREDIENTS
 40 CAPSULE PER CONTAINER EACH CAPSULE IS 500 MG. PURELY AND ORGANICALLY EXTRACTED FROM HERBS WITH RIGOROUS STUDIES ON EVIDENCE BASED RESEARCH.

STK BOOSTERS
 Indicated for patients with immune suppression diseases such as cancer. A co-support to patients on chemotherapy. Cleanses of the side effects of chemotherapy.

STK HEPATOZONE
 Indicated for patients with both viral and non viral induced hepatitis. Liver cancer hepatocarcinoma. It cleanses the liver, regulates metabolism, without from the destruction of liver enzymes, molecules such as SGOT, SGPT, Serum creatinine, and reverses the side effects of patients taking chemotherapy for the treatment of liver cancer/liver cirrhosis.

STK SKAN
 Indicated for patients with systemic cancers such as Leukemia, Prostate and Cervical cancers at 500mg doses. Very good as support therapy for patients on chemotherapy as it neutralizes the side effects of chemotherapy drugs.

STK LOOSE-IT
 Indicated for patients with obesity. Increases metabolism while suppressing appetite.

STK REV
 An immune booster specifically indicated for patients with diabetes and diabetes cum drug induced low libido. Very good as support therapy for patients and hyperglycemic therapy.

STK PHYTOMUNE
 Indicated for patients with immune deficiency diseases, also indicated for Opportunistic cancers and malignancies such as Kaposi Sarcoma and immune deficiency syndrome. Cleanses the liver and kidney of synthetic drug residues.

NAFDAC APPROVED
 For more info visit www.stkbiotech.com or call: 1 234 009 09 075 3379
 Email: info@stkbiotech.com, stknkaga@gmail.com
 FACTORY ADDRESS: 3 PALACE ROAD, UNUSUN UBATTA OFF MCC ROAD, OWERRI, IMO STATE

STK BIOTECH

HIGHLY EFFECTIVE WITH 100%

OUR PRODUCTS
 *STK Boosters
 *STK Phytomune
 *STK Loose-IT
 *STK Skan
 *STK REV
 *STK Hepatozone

ORGANIC ACTIVE INGREDIENTS
 American Ginseng, Cacao Maqui, Vernonia Clinaria, Theobroma Cacao, Moringa Oleifera.
 40 Capsule Per Container each capsule is 500 MG. Purely and Organically Extracted from Herbs with Rigorous Studies on Evidence Based Research.

STK BOOSTERS
 NAFDAC Reg No. A7-2698
 40 capsules per container. Each capsule is 500mg, purely and organically extracted from herbs with rigorous studies on evidence based research with minimal side effect. Indicated for patients with immune suppression diseases such as sickle cell anaemia and asthma. A co-support therapy for patients on chemotherapy, diabetic medication and cleanses all side effects of chemotherapy. It as well is used in the management of malnutrition.

Factory Address: 3 Palace Road, Unusun Ubatta, Off MCC Road, Owerri, Imo State.
 Tel: +2340909 075 3379 E-mail: info@stkbiotech.com, stknkaga@gmail.com, www.stkbiotech.com

STK BIOTECH

HIGHLY EFFECTIVE WITH 100%

OUR PRODUCTS
 *STK Phytomune
 *STK Loose-IT
 *STK Skan
 *STK REV
 *STK Hepatozone
 *STK Boosters

ORGANIC ACTIVE INGREDIENTS
 Solanum Nigrum, Zea Mays, Pleurotus Ostreus, Camellia Sinesis, Marchantia Debilis.
 40 Capsule Per Container each capsule is 500 MG. Purely and Organically Extracted from Herbs with Rigorous Studies on Evidence Based Research.

STK Phytomune
 NAFDAC Reg No. A7-2698
 40 capsules per container. Each capsule is 500mg, purely and organically extracted from herbs with rigorous studies on evidence based research, highly effective with minimal side effect. Indicated for patients with immune deficiency diseases such as HIV/AIDS and cancers and malignancies such as Kaposi sarcoma due to immune deficiency syndrome. Cleanses the liver and kidney of synthetic drug residues.

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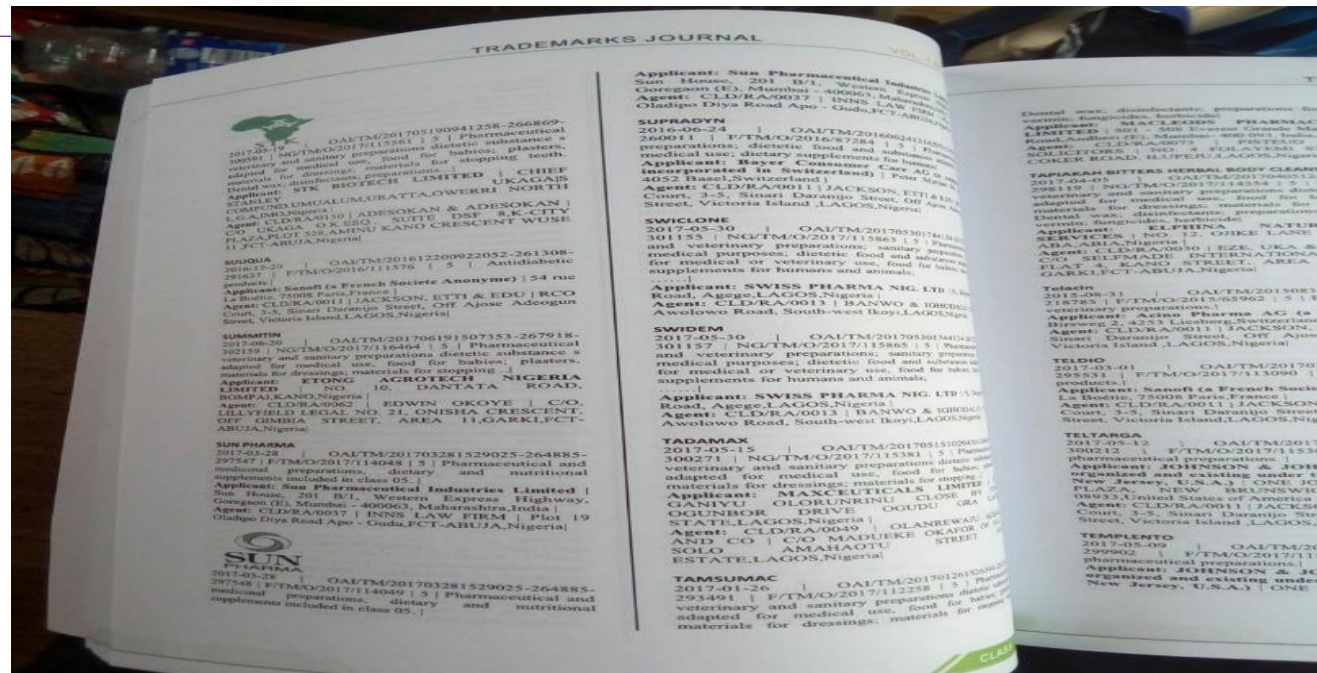
Visited by the Association of Medical Laboratory Scientists, Nigeria

Quality assurance

- Microbial analysis of raw materials and finished products (Fungal and bacterial counts, identification) We use batch Nos.
- We track specifically mycotoxin producing fungi
- (UV sterile rooms and solvents (Iodine in acetone to disinfect aerosols)
- We take PH and absorbance of our products STK boosters, Phytoimmune, (520nm, 450 nm) we make suspensions with sterile distilled water (calibration of standards)
- Attention (GMP, HACCP) : Lot number, Batch number and filing system for each product (Orphan production)



Generation Biotech Company: Phytobiotechnology Trade mark



Duly registered as a company in Nigeria and trade mark registered in Nigeria.

Products undergone regulation and approval by Food and Drug, NAFDAC Nigeria

Preventive dose for COVID 19

- One capsule (500mg) orally with food and water a day daily 3 days a week especially in a high risk burden area (*STK boosters*) **for 4 weeks**
- *Full treatment with early window phase infection* > One capsule (500mg) of Boosters morning and one capsule Phytoimmune in the evening 5 days a week **for 14 days.**
- Complementary treatment for COVID19 : with STK Boosters and Allopathic therapy:
 - 1. Coartem (Arthemether/Lumefantrine) or Coartem forte one capsule gel twice a day for three days continue for another three days
 - 2. Azitromycine 500 mg twice a day for 7 days
 - 3. Panadol 500mg a tablet twice a day for 5 days
 - 4 STK boosters 500mg one capsule (morning) daily 5/7 days for 14 days
 - 5 STK Phytoimmune (500mg) 1 capsule (evening) daily 5/7 days for 14 days
- **The physician is consulted for an evidence based clinical work up management**

OUTPUT 3

Pandemic treatment with Moringa sand filter rigs.



Plant Coagulants/Disinfectants

- Cactus, Quar gum, Syncronus potatorum, Hisbiscus
- Moringa Oleifera



Mo See



Moringa seed in pods



Strategies to Avoid Catching the Covid-19 Virus

1) Hand Washing

2) Hand Sanitizers <https://www.vanguardngr.com/2020/05/weve-received-only-one-application-on-claims-of-herbal-covid-19-remedies-nafdac>

3) Face Masks

4) Social Distancing

5) Awareness of Common Touch Points



The need to build Sanitation health literacy in the era of COVID in Africa is recommended

Moringa sand filter drums, low cost water wastewater treatment in Cameroon. Ecological hygiene: lessons from nature and Ecological medicine





Water Supply

We work on simple water supplies by drilling simple low cost wells for rural households. Where there is no water supply at all or limited water supply.

Our sample well for water supply for a rural household with a simple Pulling system tied to a bucket. (Kenneth in the Photo)

OUTPUT 4:

Protecting Farmers from disease transmission: Building SOPs for hand sanitization, and use of face mask and gloves for African farmers during and after COVID-19 pandemic



We have started to build an Ecological Hygiene

OUTPUT 5 :

1. Formulation, Evaluation, and Antimicrobial studies of water-based herbal hand sanitizer gel against Infectious diseases such as SARS CoV-2 (WIP)

3. Low cost plant based soaps with local materials identified (WIP)

4. 1st VIRTUAL TRAINING WORKSHOP ON: Addressing COVID-19 in AFRICA through WASH: Household water filtration and Installations using low cost materials in AFRICA on the 8th and 9th of December 2020, with more than 60 participants by AU ASRIC

2. Plant based herbal hand sanitizer against Infectious agents and SARS CoV-2 (100%) Ecological identified (WIP)



Plants For Continuous research work

- Face mask: plants for face mask production and validation of efficacy
- Phytodisinfectants: plants based on afrocentric knowledge
- Sanitizers; Soap local soap
- Selected plants for further screening based on symptoms of COVID and other viruses: Coffee, Cocoa, Pumpkin, Mushrooms, Occimum,
- Artemisia annua, garlic, Ginger, tumeric,
- Disthemonanthus sp
- Afro centric Health Literacy framework for Diaspora engagement and community approach for control of Infections such as COVID

AfroSuppressCOVID19: 6 point strategy based on african community realities to control COVID

MPH Laboratory (Tanzania, Namibia, Ghana, Egypt, Kenya, Cameroun)

Preconference WCPH2020

Theme: Helping people to help themselves to better health -From theory to practice.

This presentation was prepared by Prof Kenneth Yongabi,
Faculty of Health Sciences, Imo State University , Owerri,
October 12, 2020
yongabika@yahoo.com

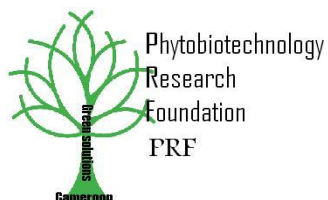
CONSULTATION WITH EXPERTS AND RESEARCHERS ON THE CONTRIBUTION OF TRADITIONAL MEDICINE TO COVID-19 IN THE AFRICAN REGION – World Health Organisation – AFRO

Date: 8th May 2020

Time: see below your own time zone

'ADVOCATING FOR A COMMUNITY PARTICIPATORY APPROACH FOR THE PREVENTION OF COVID-19 IN AFRICA'

Awarded the Marc Bopelet Gold Medal for Excellent contributions in African Public Health Systems by the Cameroon Academy of Sciences, 2020



1. Several Consultation with experts and researchers on the contribution of traditional medicine and COVID-19 in the African Region/Consultation sur la médecine traditionnelle 2 may 10 close to 190 participants

[**Afro-centric Health Literacy Intervention Strategies - World ...**](#)
[origin.who.int › working-groups › 13-s4-yongabi](#)

PDF

2. Many herbal claims across Africa, Madagascar, Cameroon, Senegal, Nigeria, etc (our Working Group)?? The problem... my views on the approach in the link:

[**COVID-19: The Best Solution Remains Evolutionary Learning ...**](#)
[headlines.ng › COVID-19](#)

Apr 17, 2020 - *Kenneth Anchang Yongabi* is a *Professor* of Public Health, Infectiology and Phytobiotechnology at the Imo State University, Owerri. He is a .

3. An African response strategy required .. AU most Credible to lead Africa (best options for now versus Vaccines??)

[**'Africa must combine modern, traditional medicine to combat ...**](#)
[thenationonlineng.net › africa-must-combine-modern-t](#)

Clinical trial: Randomized control placebo studies, design available. 25 -50 patients (COVID 19) or with symptoms across the regions of Africa (Central, South, North, East, West) required.

[https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(20\)32642-8/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)32642-8/fulltext)

The COVID-19 vaccines rush: participatory community engagement matters more than ever - The Lancet

The announcement of effective and safe vaccines for COVID-19 has been greeted with enthusiasm. Discussions continue about the ethical challenges of ensuring fair access to COVID-19 vaccines within and across countries, and which groups should be prioritised.^{1,2} There are concerns about equity in access to COVID-19 vaccines. Estimates as of Dec 2, 2020, suggest direct purchase agreements have ...



INSTITUTE FOR
BIO-PHYTOMEDICINE
& PHYSIATRY



**DEBATE CMR
PERSPECTIVES**

Presents

ROUNDTABLE DISCUSSION

**CLINICAL TRIALS AND VACCINES
CONUNDRUM: SHOULD COVID-19 TRIALS
BE DONE IN AFRICA?**



Guests:
Dr Shey Eugene Ateh, DVM
Nicol Lami, NP, MSc
Prof Kenneth Y Anchang, PhD, D.Sc, ND

SATURDAY APRIL 18 , 2020
ON THE
BIG DEBATE FACEBOOK PAGE - FACEBOOK LIVE

TIME: 13:30 CT, 14:30 ET, 19:30 UK, 19:30 BUEA, 20:30 CET

CONCLUSION

The Task is enormous : From Out puts 1-6, a lot has been achieved but the tasks remain uncompleted. The need to complete the tasks. A huge potential for carrying clinical trials of afrocentric talented medicinal plant derived products should be supported , more evidence based lab studies on antiviral and immune boosting plants should be forged ahead.



Guideline for Improved
Harmonized Good Clinical
Research Practice for AU
Member States



Conclusion : Community led interventions for COVID 19 in Africa would hardly fail:

The Ubuntu concept in health Care: I am because you are. My unwellness makes the community unwell.

COVID 19 control measures cannot be a one size fit all for all the continents of the world



An anthropologist proposed a game to the kids in an African tribe. He put a basket full of fruit near a tree and told them that whoever got there first won the sweet fruits. When he gave them the signal to run they all took each other's hands and ran together, then sat in a circle enjoying their treats. When he asked them why they chose to run as a group when they could have had more fruit individually, one child spoke up and said: "UBUNTU, how can one of us be happy if all the other ones are sad?"

'UBUNTU' in the Xhosa culture means: "I am because we are"

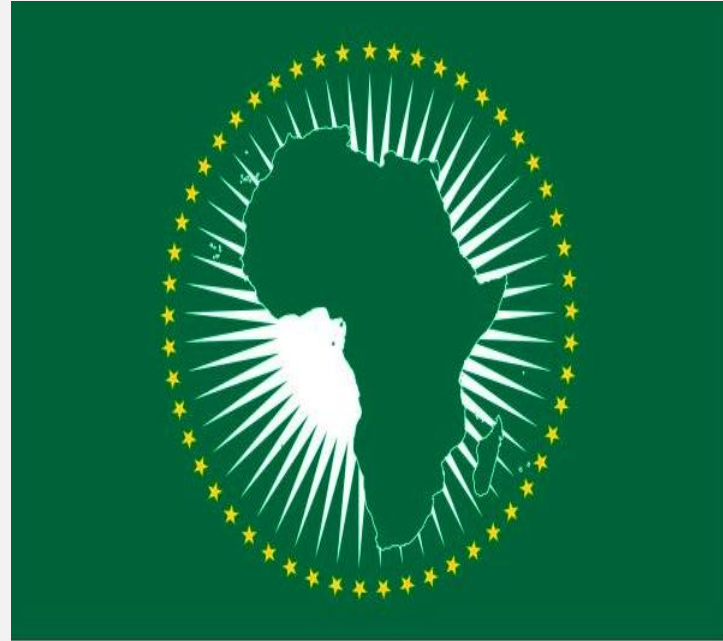
"To be rich, is not what you have in your bank account, but what you have in your heart."





Thank You

MERCI



OBRIGADO

شكرًا

