REGISTRATION

OPENING CEREMONY 8h30

CHAIR | Yin Li

Introduction for TWAS Young Affiliates Network

- Vivaldo Moura Neto (TWAS-ROLAC)
- Luiz Davidovich (BAS)
- Manuel Limonta (ICSU-ROLAC)
- Max Paoli (TWAS)

KEYNOTE LECTURE

Sergio DJ Pena (UFMG) | Molecular Portrait of Brazil

COFFEE BREAK

TWAS-Elsevier Foundation 10h30 **Special Session**

CHAIR | Max Paoli

- 1. The role of science for sustainable development (Max Paoli)
- 2. The Elsevier Foundation: support for sustainability (Juliana Trajano) TWAS-Elsevier Foundation

Sustainability Case Studies Competition Winners

- 1. Abiola Ezekiel Taiwo
- Susan Moraa Nvasimi
- 3. Brice Landry Koloko
- 4. Oscar Donde
- 5. Rahiel Hagos Abraha

LUNCH | BOSSA CAFÉ - 3RD FLOOR

Workshop: The role of young scientists in achieving the UN Sustainability Development Goals

Introduction to the sustainability workshop and splitting into groups Discussion workshops (3 thematic groups) Mini presentations of action points

POSTER SESSION | FOYER

16h30 Workshop: "Opportunities within TWAS ROs"

DINNER AND SOCIAL ACTIVITIES | CONFERENCE DINNER

TO READ ABOUT THE SPEAKERS

SCAN THE QRCODE OR ACCESS:



Brazilian Academy of Sciences

Young Affiliate Session

Pre-print

SPEAKER | Eduardo Fraga (UFRJ)

WWW.ABC.ORG.BR/SPEAKERSTYAN

Oral Session 1 8h30

- 1. Mirabbos Hojamberdiev* FLUX GROWTH OF TRANSITION METAL OXYNITRIDE CRYSTALS FOR PHOTOCATALYTIC WATER SPLITTING
- 2. Chin Ping Tan* MITIGATION OF 3-MONOCHLOROPROPANE-1,2-DIOL AND GLYCIDOL ESTERS IN REFINED PALM OIL VIA MODIFIED REFINING PROCESS

3 Amal Amin Ihrahim YEARS WITH CHEMISTRY AND NANOTECHNOLOGY

FROM RESEARCH TO LIFE PATHWAY 4. Emad Yousif Al-Sarraj

PHOTOSTABILIZING EFFICIENCY OF POLY(VINYL CHLORIDE)
IN THE PRESENCE OF ORGANOTIN(IV) COMPLEXES AS PHOTOSTABILIZERS

5. Murad AlDamen

[(P4W6O34)2CO2NA2(H2O)2]18-: A NEW, CARBON-FREE, POLYOXOMETALATE (POM) CATALYST FOR OXIDATION OF WATER

6. Atunga Nyachieo

IN VITRO AND IN VIVO EVALUATION OF THERAPEUTIC EFFICACY OF PHAGES AGAINST MULTIDRUG RESISTANT STAPHYLOCOCCUS AUREUS (MDRSA)

7. Emeka E. Oguzie

COFFEE BREAK

Oral Session 3

1. Olaniyi A Fawole*

10h30

BIOMASS EXTRACTS INHIBIT METAL CORROSION

8. Monther A. Khanfar CRYSTAL STRUCTURE AND COUNTERPOISE-CORRECTED ENERGIES, NBO, HOMO_LUMO AND F_LAND F_S INTERACTION ENERGIES OF UNUSUAL [CH3SI2][SBF6] SALT

9. Musharraf Sved Ghulam

VALUE ADDING POTENTIAL OF POMEGRANATE FRUIT PEEL: A PHARMACOLOGICAL PROSPECTIVE

Roula M. Abdel-Massih*

3. Adeiuwon A. Adeneve

4. Ahmed E. Abdel Moneim

DIGGING OF PHYTOCHEMICALS USING MASS SPECTROMETRY MACHINES

ANTIBACTERIAL ACTIVITY OF ILEX PARAGUARIENSIS (YERBA MATE)
AGAINST GRAM POSITIVE AND GRAM NEGATIVE BACTERIA

OLIVE (OLEA EUROPAEA) LEAF METHANOLIC EXTRACT PREVENTS HCUETHANOL-INDUCED GASTRITIS IN RATS BY ATTENUATING INFLAMMATION AND AUGMENTING ANTIOXIDANT ENZYME ACTIVITIES

MEDICINAL PLANTS AS SOURCE OF BIOACTIVE NATURAL COMPOUNDS

GLUCOSE LITH IZATION AND ANTI-OXIDATIVE MECHANISMS

OF THE AQUEOUS HUNTERIA UMBELLATA SEED EXTRACT
IN ALLOXAN-INDUCED HYPERGLYCEMIC RATS

Oral Session 2

1. Rvm Kefi*

DNA TYPING FOR GENETIC DISEASES INVESTIGATION AND HUMAN IDENTIFICATION

2. Samir Abbes*

MONTMORILLONITE CLAY AND LACTOBACILLUS PARACASEI REIO1 MIXTURE COUNTERACTED IMMUNO-PHYSIOLOGICAL ERATIONS FROM AFB1 IN RATS

3. Sok Ching Cheong DEVELOPING THE RESOLIRCES TO COMBAT AN ASIAN CANCER

4. Stevens Rehen NEW INSIGHTS ABOUT ZIKA VIRUS INFECTION USING IPS CELLS

5. Subhabrata Chakrabarti FUNCTIONAL GENOMIC INTERACTIONS IN A CONGENITAL BLINDING DISEASE AMONG CHILDREN IN THE DEVELOPING WORLD

6. Yusuf Baran

MOLECULAR MECHANISMS OF MULTI DRUG RESISTANCE AND ITS REVERSAL IN CANCER

7. Alexander De Luna

Oral Session 4

3. Collet Dandara

4. Patricia Zancan

1. Andrea Paula-Lima*

2. Flavia Lima Ribeiro Gomes*

AND CEREBRAL EXPERIMENTAL MALARIA

EVOLUTIONARY ORIGINS OF STEM CELLS

6. Jalila Ben Salah- Abbes

SEQUENCE OF IMMUNE RESPONSE IN NON-CEREBRAL

Federico David Brown Almeida*

UNDERSTANDING HOW GENES, ENVIRONMENT, AND THEIR INTERACTIONS INFLUENCE AGING AND LONGEVITY

RYR2-MEDIATED CALCIUM RELEASE AND MITOCHONDRIAL ROS GENERATION PARTAKE IN THE SYNAPTIC DYSFUNCTION CAUSED BY AMYLOID BETA PEPTIDE OLIGOMERS

PHARMACOGENOMICS: A PRIMER FOR PRECISION MEDICINE IN AFRICA

CANCER BIOENERGETICS: NOVEL INSIGHTS INTO TARGETS AND DRUGS

ABILITY OF LACTOBACILLUS PLANTARUM MON 03 TO ADHERE TO CACO-2 CELLS IN VITRO AND TO MITIGATE AFB1 INTESTINAL CELLS DAMAGE IN VIVO

8h30 Oral Session 6

1. Christian A.M. Wilson*

FUNCTIONAL STUDIES OF THE BIP CHAPERON PROTEIN AND HIS ROLE IN PROTEIN TRANSLOCATION

2. Hudaa Neetoo*

MODELING THE GROWTH OF LISTERIA INNOCUA AND SPOILAGE BACTERIA IN COOKED TLINA LOINS

3. Rafael V. C. Guido

DISCOVERY OF ENOBLOCK AS PLASMODIUM FAI CIPARUM ENOLASE INHIBITOR: MECHANISM OF INHIBITION, X-RAY CRYSTALLOGRAPHY. IN VITRO AND IN VIVO STUDIES

4. Yraima Cordeiro

SEARCHING FOR ANTI-SCRAPIE COMPOUNDS USING A BIOCHEMICAL AND BIOPHYSICAL ASSAY PLATFORM

5. Ranga Rao Ambati

BOTRYOCOCCUS BRAUNII: AN ALTERNATIVE SOURCE OF CAROTENOIDS AND ITS POSSIBLE APPLICATIONS

6. Yin Li

PRODUCTION OF CHEMICALS FROM CO2 BY ENGINEERED CYANOFACTORIES

7. Franco Martin Carbrerizo R-CARROLINE ALKALOIDS: PHOTOSENSITIZING PROPERTIES AND BIOTECHNOLOGICAL APPLICATIONS 6. Adewale Adewuyi

Oral Session 7

1. Nudrat Aisha Akram*

2. Pablo Bolanos-Villegas

3. Victorien Dougnon

4. Luna Kamau

5. Frederick Adzitey

CROP DROUGHT TOLERANCE: STRATEGIES AND IMPROVEMENTS

REGULATION OF EMBRYO DEVELOPMENT IN TROPICAL FRUIT PLANT CARICA PAPAYA

EFFECTS OF BIODIGESTION OF CHICKEN MANURE ON THE

UNCONVENTIONAL APPROACHES TO MOSQUITO CONTROL:
INTERFERENCE WITH MALE MOSQUITO FERTILITY

PREVALENCE OF RESISTANT ESCHERICHIA COLI ISOLATED FROM PASTEURISED COW MILK AND ITS RELATED SAMPLES IN THE TAMALE METROPOLIS OF GHANA

HYGIENIC QUALITY OF LEAVES OF SOLANUM MACROCARPON LINN (SOLANACEAE) PRODUCED IN URBAN AGRICULTURE

BIODIESEL FROM GLIRICIDIA SEPIUM AND BAPHIA NITIDA: A RENEWABLE SOURCE OF ENERGY FOR SUSTAINABLE DEVELOPMENT IN RURAL AFRICA

COFFEE BREAK

10h30 Oral Session 8

- 1. Emmanuel Unuabonah* HIGHLY EFFICIENT REMOVAL OF ENTERIC BACTERIA FROM WATER WITH HYBRID CLAY COMPOSITES
- 2. Marcelo Farina*

ENDURING NEUROTOXIC FFFECTS OF PERINATAL EXPOSURES TO PESTICIDES IN MICE

3. Etinosa Igbinosa

THE DYNAMICS OF ANTIBIOTICS AND ANTIMICROBIALS I N RESERVOIRS: ECOLOGICAL AND PUBLIC HEALTH RISK

4. Aiav Kumar Jha

WASTE TO ENERGY POTENTIAL MAPPING FOR

COMMERCIAL WASTE IN NEPAL

5. Jamel Jebali BIOCHEMICAL AND PROTEOMICS RESPONSES IN MEDITERRANEAN CRAB: EFFECTIVE TOOLS TO EVALUATE THE TOXIC EFFECTS OF MARINE CONTAMINANTS

6. David P Tchouassi A NOVEL SANDFLY-BORNE PHLEBOVIRUS FROM EAST AFRICA

7. Chabi Djagoun NICHE OVERLAP AND RESOURCE PARTITIONING BETWEEN RARE TOPI ANTELOPE (DAMALISCUS KORRIGUM) AND OTHER SYMPATRIC BULK GRAZERS IN PENDJARI BIOSPHERE RESERVE (NORTHERN BENIN): IMPLICATION FOR TOPI CONSERVATION

8. Ronald Vargas

ELECTROCATALYTIC OXIDATION OF ORGANIC POLLUTANTS: KINETIC CONSIDERATIONS FOR ENVIRONMENTAL APPLICATIONS

Oral Session 9

- Lawrence Kazembe* MULTI-SPELL HAZARD MODELS FOR FERTILITY
 DYNAMICS WITH UNOBSERVED SPATIAL HETEROGENEITY
- Jamil Mubasher*
- PARTICLE DYNAMICS AROUND ROTATING BLACK HOLE

3. Bolanle Ojokoh

ANSWER EXTRACTION FROM AN ACADEMIC QUESTION ANSWERING SITE

4. John Fredy Barrera Ramírez DATA PROTECTION USING OPTICAL ENCRYPTION

5. Haikel Jelassi WEAKLY-BOUND MOLECULES OBTAINED BY LASER-ASSOCIATION OF COLD ATOMS, AND THE

ANALYSIS BY THE VIBRATIONAL QUANTUM DEFECT 6. Hassane Bouzahir

ON SWITCHED HYBRID DYNAMICAL SYSTEMS: STABILITY AND SIMULATION

7. Luis Zapata RELICS FROM A VIOLENT PROTOSTELLAR MERGER IN ORION

LUNCH | BOSSA CAFÉ - 3RD FLOOR

13h Oral Session 5: Invited talks

5. Simeon F. Kouam

1. Silvia Barros (итох) TITLE | PARTNERS IN PROGRESS: IUTOX AND THE TWAS YOUNG AFFILIATE NETWORK

2. Charlotte Grawitz (EURAXESS - BRAZIL) TITLE I BOOST YOUR RESEARCH CAREER WITH EU FUNDING AND TOOLS

3. Oscar Reves (ICSU-ROLAC) TITLE I STRENGTHENING INTERNATIONAL SCIENCE FOR THE BENEFIT OF SOCIETY

4. Juliana Trajano (ELSEVIER FOUNDATION) TITLE | ETHICAL SCIENTIFIC PUBLISHING

Oral Session 6: Brazilian Academy of Sciences Young Affiliate Session: Top Science with Low Funding

- Brenno Neto (UFRGS)
- Carolina Cotta (UFRJ)
- Carolina Horta (UFG)
- Gustavo Menezes (UFMG) Leonardo Travassos (UFRJ)

14h30 COFFEE BREAK

16h30 WORKSHOP: "OPPORTUNITIES FOR COOPERATION"

DINNER AND SOCIAL ACTIVITIES

POSTER SESSION | FOYER

LUNCH | BOSSA CAFÉ - 3RD FLOOR

Oral Session 10: The importance of Science Communication & Diplomacy in the developing world

- Maria Augusta Arruda (university of nottingham | FARMANGUINHOS-FIOCRUZ)* TITLE | SCIENCE FOR DIPLOMACY, DIPLOMACY FOR SCIENCE
- Luiz Davidovich (UFRJ | BAS PRESIDENT)
- TITLE | SCIENCE, POLICY AND GOVERNANCE: INVENTING THE FUTURE

Young Science Diplomats:

- Yusuf Baran (TYAN)
- Amal Amin (TYAN)
- Almas Tai Awan (UFSCAR, BRASIL)

14h30 - 15h CLOSING CEREMONY

COPACABANA A ROOM

COPACABANA B ROOM

*SESSION CHAIR