

# TWAS Young Affiliates Network

*Think globally, work professionally*

# Why we need such an initiative

- TWAS Young Affiliate (YA) Programme started in 2007, 25 YAs/year nominated by five TWAS Regional Offices
- 10<sup>th</sup> year; ~250 Young Affiliates/Alumni
- Five-year term; Alumni no longer participate TWAS General Meeting
- Strong vertical links exist (TWAS, TWAS Regional Offices and TWAS YA)
- **No horizontal links; many TWAS YA do not know each other**
- YA - best young scientists in developing world – how to contribute their motivation, creativity and intelligence?
- **TYAN** – Young Affiliate 5 years + Alumni 5 years + Life-long link
- *Lenovo* – 150,000 USD/year; TWAS and CAS highly supportive

# Kick-off TYAN by interactive workshops

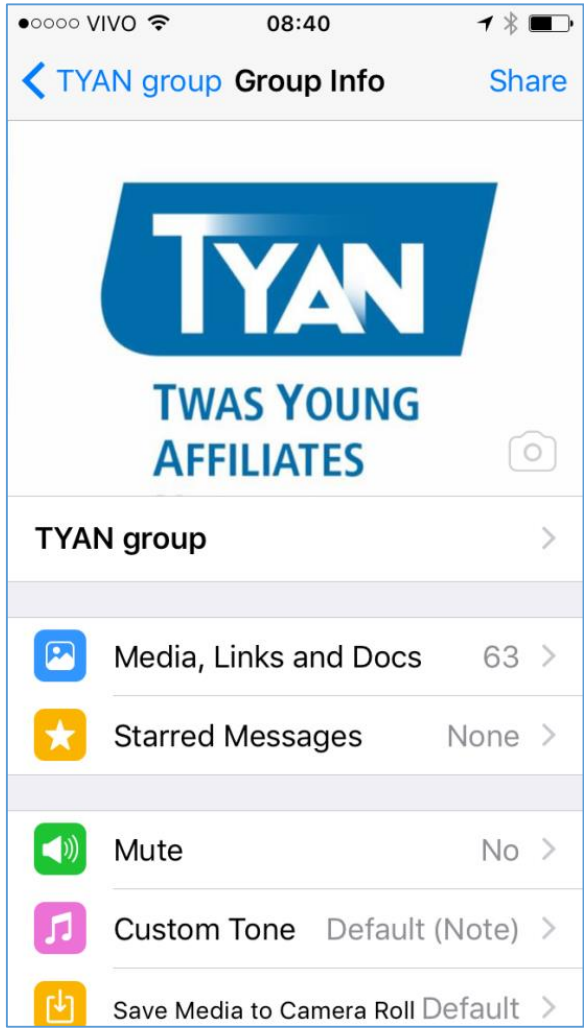


- Dynamic groups, highly enthusiastic, active contribution of ideas
- ***Development of TYAN as a new platform/arm of TWAS and five TWAS Regional Offices:*** mission, objectives, roles, deliverables, organizational structure, memberships, election, etc
- ***TYAN Social Responsibilities:*** increase the visibility of TWAS; partnering with national young academies; capacity building; SDCs – **beyond a scientist**
- ***TYAN Scientific Cooperation Opportunities:*** Research consortia/emerging diseases, climate change, food/water safety, preservation/utilization of biodiversity
- ***Identify immediate TYAN activities*** workshops/ symposia/ meetings/ networking, to be planned in 2017



# TYAN: a growing community

WhatsApp group  
**80** YAs and alumni





# TYAN Executive Committee Members

2016 - 2019

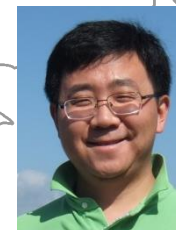
Jalila Ben Salah-Abbas  
Environmental toxicologist  
**Tunisia**  
*Scientist interactions*



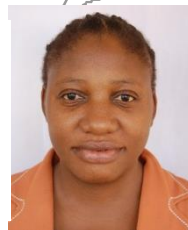
Yusuf Baran  
Cancer geneticist  
**Turkey**  
*Partnerships*



Yin Li  
Microbiologist,  
**China**  
*Funding*



Bolanle Ade Ojokoh  
Information Scientist  
**Nigeria**  
*Communication*



Sok Ching Cheong  
Cancer biologist  
**Malaysia**  
*Scientific Cooperation*



Patricia Zancan  
Cancer biologist  
**Brazil**  
*Public understanding*



Franco Martin Cabrerizo  
Organic/physical chemist  
**Argentina**  
*Organizing activities*



Collet Dandara  
Human geneticist  
**South Africa**  
*General Secretary*





# Great support from TWAS

- Official letter issued by Prof. Hassan
- Massimo Paoli and his team: overall coordination
- Fabrizia Niscio: secretary for TYAN
- Edward Lempinen and his team: TWAS website policy, news release
- A domain name – <http://tyan.twas.org>
- Profiles of >120 YAs



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## TYAN – TWAS Young Affiliates/Alumni Network

Dear Partners and Friends,

I am writing to you to announce the establishment of the *TWAS Young Affiliate/Alumni Network* (TYAN).

Every year since 2007, TWAS's Regional Offices have been selecting up to 25 researchers under the age of 40 in the developing world who show potential for a high-impact career in science. The selected so-called TWAS Young Affiliates represent a tremendous cohort of promising scientists from the developing world. During their five-year tenure, Young Affiliates build networks with each other and with elected TWAS Fellows and attend international conferences such as the TWAS General Meeting. There are currently 239 Young Affiliates.

To maximize the impact of their creativity and intellectual skills, and to facilitate the generation of opportunities for face-to-face interactions for these Young Affiliates, TYAN was formally launched in November 2016 at the 27<sup>th</sup> TWAS General Meeting in Kigali. Already from the onset, TYAN was able to catalyse interactions for collaborative work and exchange of ideas, advice and mutual cooperation.

It is my great pleasure to announce the results of the election of the TYAN Executive Committee, which shows gender balance and good geographical distribution.

### TYAN Executive Committee Members Voting – 16 November 2016

**ARAB Region:** Jalila Ben Salah-Abbas (Tunisia) – Female, jalila.bensalah@yahoo.fr

**LATIN AMERICA:** Patricia Zancan (Brazil) – Female, pzancan@me.com  
and Franco Martin Cabrerizo (Argentina) – Male, fcabrerizo@intech.gov.ar

**SUB-SAHARAN AFRICA:** Bolanle Ade Ojokoh (Nigeria) – Female, bolanleojokeh@yahoo.com  
and Collet Dandara (South Africa) – Male, collet.dandara@uct.ac.za

**EAST/SOUTH EAST ASIA:** Yin Li (China) – Male, yli@im.ac.cn  
and Sok Ching Cheong (Malaysia) – Female, sokching.cheong@carif.com.my

**CENTRAL/SOUTH ASIA:** Yusuf Baran (Turkey) – Male, ybaran@gmail.com, yusufbaran@iyte.edu.tr

Chair: Yin Li, Co-chairs: Sok Ching Cheong and Patricia Zancan

I seek your assistance and support by nominating future capable young scientists to become Young Affiliate, bearing special attention to women and researchers from Least Developed Countries and Low Income Countries. In addition, your support will be instrumental to disseminate news about the establishment of TYAN, as well as to encourage the participation of young scientists in TYAN activities.

Professor Mohamed Hassan  
TWAS Executive Director (ad interim)

# TYAN connects with other organizations

Promoting the visibility of TYAN and to connect more young scientists

| Partner organization   | Date, Venue                                   | Activity  |
|--|---|---|
| Egyptian Young Academy<br><b>1st International Conference of Women in Science and International Networking</b> | 21-23 March 2017<br>Cairo, Egypt              | <b>Patricia Zancan</b> and <b>Bolanle Ojokoh</b> presented their work and introduced TYAN |
| <b>BioVision</b>   | 5-6 April 2017<br>Lyon, France                | <b>Yusuf Baran</b> organized and lead a meeting of TWAS YAs, and chaired a session        |
| Global Young Academy<br><b>3rd Worldwide Meeting of Young Academies</b>  | 19-21 July 2017<br>Johannesburg, South Africa | <b>Collet Dandara</b> will present his work and introduce TYAN                            |
| Young Scientist Network, Malaysia<br><b>ASEAN Science Leadership Programme (ASEAN SLP)</b>                     | 7-11 September 2017<br>Kuala Lumpur, Malaysia | <b>Sok Ching Cheong</b> will be in the organizing and selection committee.                |

# 1st TYAN International Conference, Rio de Janeiro

## Main objectives:

- To further increase interactions among young affiliates;
- To provide a platform to explore cross-border scientific collaborations;
- To address regional issues related to Sustainable Development Goals.

## Organization and financial structure in Brazil:

**TYAN: Patricia Zancan – TYAN Co-chair; TWAS-ROLAC: Kenya Aragão**

**Financial support from the TWAS-ROLAC, Brazilian Academy of Science (BAS), ICSU-ROLAC, and TYAN - Lenovo, TWAS-ROSSA**



# 1st TYAN International Conference, Rio de Janeiro



TWAS YOUNG AFFILIATES NETWORK



**1<sup>st</sup> International Conference of  
TWAS Young Affiliates Network**



*Certificada como Utilidade Pública  
pelo Ministério da Justiça*



**Pedro Armando** BRANDING E  
PERFORMANCE DIGITAL

# 1st TYAN International Conference, Rio de Janeiro

The screenshot shows the 'Conference Registration' page. At the top, there is a navigation bar with the TYAN logo and links for Home, About, Member, News, Event, Publication, and Activities and Networks. Below the navigation bar is a blue header with the text 'Conference Registration'. The main content area features a sub-header 'PRELIMINARY REGISTRATION FORM' and a deadline notice: 'Please complete this form on-line by 30 April 2017'. The registration form includes a 'Title\*' dropdown menu with 'Dr' selected, and two text input fields for 'First Name\*' and 'Last Name\*'. To the right of the form is a logo for the '1st International Conference of TWAS Young Affiliates Network'.

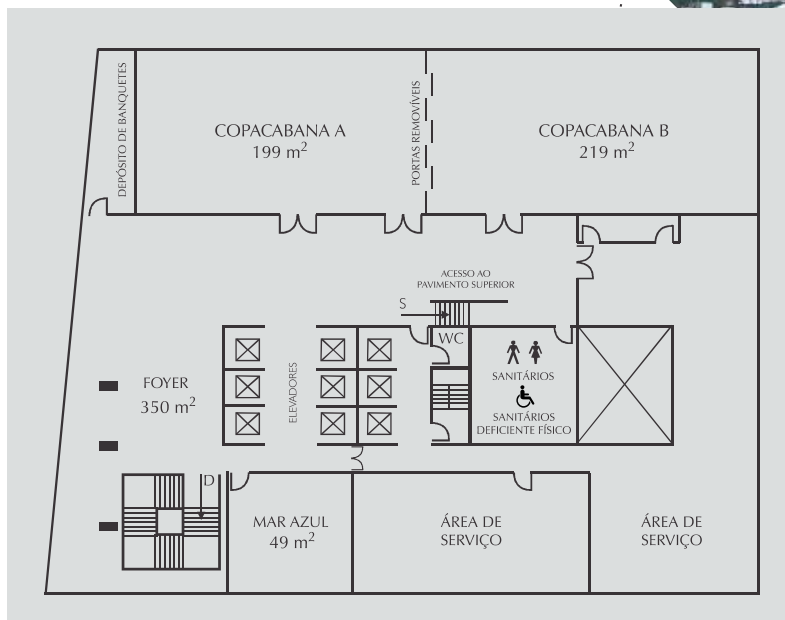
- **81** YAs registered /71 abstracts received
- **50** BAS Young Affiliates will join
- Registrants from each RO:
  - ROSSA: 23
  - ARO: 18
  - ROCASA: 14
  - ROESEAP: 6
  - ROLAC: 20

The screenshot shows the 'Abstract Submission' page. It has the same navigation bar as the registration page. Below the navigation bar is a blue header with the text 'Abstract Submission'. The main content area features a sub-header 'Abstract Submission' and a deadline notice: 'Please complete this form on-line by 30 April 2017'. The submission form includes a 'Title\*' text input field with a character count '(0 characters)', and a larger 'Abstract Text\*' text area with a word count '(0 words)'. To the right of the form is an 'Instruction' box containing two points: '1. Abstract text should be maximum of 300 words and no images' and '2. Deadline for submission is 30th of April, 2017'.

- **Mathematical and material science (6)**
- **Chemical science (8)**
- **Physics and biophysics (10)**
- **Medical research including cancer research (16)**
- **Microbiology (7)**
- **Agriculture and food science (8)**
- **Natural product research (11)**
- **Population and environmental science (5)**

# 1st TYAN International Conference, Rio de Janeiro

August 22-24, 2017, Rio Othon Palace Hotel - Rio de Janeiro - Brazil



## Proposed programme

| Day 1 (August 22th)  | Day 2 (August 23th)  | Day 3 (August 24th)  |   |  |
|--|--|--|---|--|
| 8:30-10:00<br>Open Ceremony<br>TYAN introduction<br>Plenary talks (2)                        | 8:30-10:00<br><b>Session 1</b><br>Non-communicable diseases                    | 8:30-10:00<br><b>Session 2</b><br>Physics & Mathematic sciences          | 8:30-10:00<br><b>Session 9</b><br>Engineering Sciences              | 8:30-10:00<br><b>Session 10</b><br>Infectious diseases |
| 10:00-10:30<br>Coffee break  |  |  |   |  |
| 10:30-12:00<br>TWAS - Elsevier Foundation<br>Sustainability Case Studies Competition Winners | 10:30-12:00<br><b>Session 3</b><br>Animal & Agriculture sciences & food safety | 10:30-12:00<br><b>Session 4</b><br>Astronomical sciences                 | 10:30-12:00<br><b>Session 11</b><br>Environmental sciences          | 10:30-12:00<br><b>Session 12</b><br>Chemical sciences  |
| 12:00-1:00<br>Lunch  |  |  |   |  |
| 1:00-2:30<br><b>Workshops</b><br>"Developing TYAN"   | 1:00-2:30<br><b>Session 5</b><br>Social & economic sciences                    | 1:00-2:30<br><b>Session 6</b><br>Biological systems & structural biology | 1:00-2:30<br><b>Session 13</b><br>Science Communication & Diplomacy |  |
| 2:30-3:00<br>Coffee break  |  |  |   |  |
| 3:00-4:00<br><b>Workshops</b><br>"Opportunities within TWAS ROs"                             | 3:00-4:00<br><b>Workshops</b><br>"Opportunities for cooperation"               |  | 2:30 - 3:00<br>Closing Ceremony & Good bye                          |  |
| 4:00-4:30<br>Summary report back   | 4:00-4:30<br>Summary report back   |  |   |  |
| 4:30-6:30<br>Poster Session  |  |  |   |  |
| 7.00<br>Dinner & social activities   |  |  |   |  |

# Initiation of scientific collaborations

Among EC members; EC member/YA/young scientists; developing/developed countries; multilateral cooperation





# TYAN - Dr. M. Prakash partnership: “Foldscope”

## General Objectives:

- To use **of inexpensive scientific tools** for *biomedical, agricultural, and educational* practices
- To promote scientific curiosity with **limited access to scientific practices.**

## Implementation:

- Execution of three pilot projects (Benin, Argentina, and Brazil).
  - **Benin: “Innovative Tools for Education and Biomedical Analyses”** (Coordinator: Dr. Victorien Dougnon - Ecole Polytechnique d’Abomey-Calavi (EPAC), University of Abomey-Calavi).
  - **Brazil: “Biology Station” and “Biology on the street”** (Coordinators: Dr. Federico Brown (TYAN-TWAS), Dra. B. Jordão e Dra. A. Bizerra (Estação Biologia), Dra. D. Scarpa (Bio na Rua) – Instituto de Biociências – Universidade de São Paulo (IB-USP)).
  - **Argentina: “Parasite detection systems for on-site decision-making”** (Coordinators: Dr. F. M. Cabrerizo (TYAN TWAS) and Vet. Dr. R. E. F. Sanabria (IIB-INTECH, CONICET- UNSAM).



**Foldscope**



**Paperfuge**

# 2<sup>nd</sup> TYAN EC meeting in Beijing, June 2017



**“TYAN is an innovative initiative in promoting the development of TWAS Young Affiliates, and will play an important role in future growth of TWAS”.**

**Prof. Chunli BAI, President of TWAS**

**He advised that TYAN should develop into a network delivering effective collaborations in science & technology, and develop partnerships with research organizations in developed countries to promote south-north cooperation.**

# Strategic thinking for TYAN

- **Vision:** *A world connected by scientific cooperation*
- **Mission:** Catalyze interdisciplinary collaborations to address global challenges
- **Mid-long term goal:** Become an organization supporting **the closure of the gap** in science between the developed and developing countries

## *Growing network*

- Getting more **woman scientists** and scientists from **LDCs** connected by TYAN

## *Building capacity*

- Increasing the **capacity and the qualifications** of YAs and capable young scientists

## *Increasing visibility*

- Develop ing **partnerships**, promote **communications**, publish science

## *Enhancing collaboration*

- Launching specific/ interdisciplinary **working groups** in TYAN

## *Addressing challenges*

- Seeking funding to support TYAN-driven **global research initiatives**

# Thematic sessions

- **Environmental sciences (CO<sub>2</sub> mitigation, climate changes)**
- **Non-communicable diseases (brain science, cancer, ageing etc)**
- **Communicable diseases (Infectious diseases etc)**
- **Organic chemistry/catalysis**
- **In-organic chemistry (new materials)**
- **Microbiology & agriculture (food, hygiene, natural products)**