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# PROGRAM

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## **12<sup>th</sup> GABRIEL network international meeting May 31 - June 2, 2023**



*La Falaise Hotel,  
Yaoundé, Cameroon*



Organized by the Mérieux Foundation and  
Centre Pasteur of Cameroon

With the support of



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# Symposium Day

## WEDNESDAY MAY 31, 2023

Local time: GMT+1

- 9:00–9:30**      **Welcome Address & Opening session**  
Centre Pasteur du Cameroun & Mérieux Foundation
- 9:30–12:00**      **SESSION I - Preparedness for outbreaks of emerging and re-emerging pathogens**  
Chaired by Mirdad Kazanji, Cameroon
- 9:30–10:10      Global outbreak response and innovations, a country-based strategy and one health framework      Pierre Formenty, Switzerland
- 10:10 –10:30      Epidemic preparedness and response in Cameroon: state of progress and perspectives      Alain Etoundi, Cameroon
- 10:30–10:50      Outbreaks of emerging and re-emerging pathogens in Africa: the case of Ebola for response preparedness and implementation of medical countermeasures      Daniel Mukadi, Democratic Republic of Congo
- 10:50–11:20      **COFFEE BREAK**
- 11:20–13:00**      **SESSION II - Surveillance of emerging pathogens at the human-animal interface**  
Chaired by Francine Ntoumi, Republic of Congo
- 11:20–12:00      Evolution and epidemiology of emerging viruses from animal reservoirs      Jan Felix Drexler, Germany
- 12:00–12:15      The role of the Laboratory in the surveillance of emerging pathogens: the case of monkey pox      Richard Njouom, Cameroon
- 12:15–12:30      Monkeypox in the Central African Republic: Lessons learned      Emmanuel Nakoune, Central African Republic
- 12:30–13:15      Round Table: Early warning systems for emerging pathogens at the human -animal interface      Jan Felix Drexler, Richard Njouom, Emmanuel Nakoune, Yazdan Yazdanpanah (*online*)
- 13:15–14:30**      **GROUP PICTURE & LUNCH (Buffet)**



### 14:30–16:40 **SESSION III – Surveillance of vector-borne diseases**

Chaired by Bourema Kouriba, Mali

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|-------------|--|---|
| 14:30–15:10 | Keynote lecture on Vector-borne diseases in the context of global changes                        | Ana-Bella Failloux, France                      |
| 15:10–15:30 | Genetic drivers of insecticide resistance in African malaria vectors: impact on bednets efficacy | Charles Wondji, Cameroon                        |
| 15:30–15:50 | Public policies for vector-borne surveillance in Brazil: steps towards a one-health approach     | Camila Romano, Brazil                           |
| 15:50–16:10 | Surveillance of arbovirus infection and public health preparedness in Bangladesh                 | Tahmina Shirin, Bangladesh<br>( <i>online</i> ) |

### 16:10–16:40 **COFFEE BREAK**

### 16:40–18:20 **Session IV - Surveillance of neglected diseases**

Chaired by Sara Eyangoh, Cameroon

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|-------------|---|------------------------------|
| 16:40–17:20 | Keynote lecture: Onchocerciasis elimination in Central Africa: successes and challenges in scaling up alternative and innovative strategies | Joseph Kamgno, Cameroon      |
| 17:20–17:40 | Laboratory network as a strategy for NTDs integration management: case of Buruli ulcer  | Sara Eyangoh, Cameroon       |
| 17:40–18:00 | Challenges on leprosy surveillance in a low-resource country  | Luc Samison, Madagascar      |
| 18:00–18:20 | Impact of climate change on vectors and vector-borne diseases   | Florence Fouque, Switzerland |

### 19:30 **Departure for the GALA DINNER**



# THURSDAY JUNE 1, 2023

Local time: GMT+1

8:30–8:45 **Welcome Address**

8:45–9:30 **The GABRIEL network: main achievements**

By Florence Komurian – Pradel, France

9:30–12:30 **SESSION I – ACUTE RESPIRATORY INFECTIONS**

Chaired by Valentina Picot, France & Firdausi Qadri, Bangladesh

9:30–9:50 Effectiveness of 13-valent pneumococcal conjugate vaccine on radiological primary end-point pneumonia in Northern India Shally Awasthi, India (*online*)

9:50– 10:10 Multi-country pneumococcal colonization research, the example of Cambodia Chan Leakhena Phoeung, Cambodia

10:10–10:40 Characteristics of COVID-19 patients at admission and factors associated with clinical severity in low and middle-income countries: an observational hospital-based study Mitra Saadatian-Elahi, France

10:40–11:00 **COFFEE BREAK**

11:00–11:20 Epidemiology and serotype distribution of *Streptococcus pneumoniae* among influenza-like illness cases in metropolitan Vientiane, Lao PDR: a community-based cohort study Valentina Picot, France

11:20–11:40 Bacterial and viral etiology of acute respiratory infection among the Forcibly Displaced Myanmar Nationals (FDMNs) in fragile settings in Cox's Bazar- a prospective case-control study Abu Bakar Siddik, Bangladesh

11:40–12:00 Community Acquire Pneumonia Etiology findings and AMR data from a hospital base population in Dhaka, Bangladesh Sanchita Kar, Bangladesh

12:00–13:30 **LUNCH (Buffet)**

13:30–15:30 **SESSION II – ANTIMICROBIAL RESISTANCE**

Chaired by Florence Pradel, France & Abdoul-Salam Ouedraogo, Burkina Faso

13:30–14:00 Multicenter evaluation of the Impact of COVID-19 pandemic on the spread of antimicrobial and biocide resistance from wastewater to the environment Ariane Nzouankeu, Cameroon



- 14:00–14:20 Strengthening Data Science Capacity in Madagascar and Burkina Faso: development of an AMR Data Center Luc Samison, Madagascar
- 14:20–14 :40 Capacity building for the management, analysis, and use of integrated respiratory infection surveillance data in Burkina Faso Isidore Traore, Burkina Faso
- 14:40–15:10 The Tricycle One Health surveillance project in Antananarivo, Madagascar: Evidence of ESBL *E. coli* strain and plasmid circulation between humans, chickens, and the environment Milen Milenkov, France
- 15:10–15:30 Transmission of ESBL *E. coli* in humans through exposure to companion animals Nazareno Scaccia, Brazil
- 15:30–16:00 **COFFEE BREAK**
- 16:00–17:00 **SESSION III - CAPACITY BUILDING FOR THE SURVEILLANCE OF COVID-19 VARIANTS EMERGENCE**  
Chaired by Richard Njouom, Cameroon & Shakeel Ahmed, Bangladesh
- 16:00–16:20 Overview of the GABRIEL initiative Jean-Luc Berland, Emilie Westeel, France
- 16:20–16:40 SARS- CoV 2 variant surveillance in Bangladesh Zannat Kawser, Bangladesh
- 16:40–17:00 SARS- CoV 2 variant surveillance in Cameroon Ronald Perraut, Cameroon
- 17:00–18:30 **PARALLEL SESSIONS: Working Group by thematic**
- 17:00–18:30 **Working group on AMR**  
Moderators: Florence Pradel & Jean-Yves Madec
- 17:00–18:30 **Working group on TB**  
Moderators: Jonathan Hofmann & Stéphane Pouzol
- 19:30 **Dinner at La Falaise Hotel**



# FRIDAY JUNE 2, 2023

Local time: GMT+1

8:30–9:45

## “YOUNG SCIENTISTS AWARD” SESSION

Chaired by Graciela Russomando, Paraguay & Jean-Yves Madec, France

8:30-8:45

Genomic surveillance of SARS-CoV-2 and other pathogens in the Republic of Congo

Clausjeans Chastel Mfoutou  
Mapanguy, Republic of Congo

8:45-9:00

Respiratory syncytial virus infection in persons with acute respiratory infections during the COVID-19 pandemic in Yaoundé, Cameroon: prevalence, genetic diversity, and risk factors.

Moïse Henri Moumbeket  
Yifomnjou, Cameroon

9:00-9:15

Natural selection shapes the evolutionary pattern of SARS-CoV-2 Omicron in Bangladesh

Md Saikt Rahman, Bangladesh

9:15-9:30

Prevalence of isoniazid-resistant strains of *Mycobacterium tuberculosis* clinical isolates with unknown resistance mechanism in Cameroon

Nono Vanessa Ninkeh,  
Cameroon

9:30-9:45

Assessment of neutralizing antibody responses to SARS-CoV-2 in the Bangladeshi population: a comparison between natural infection and vaccination with four different COVID-19 vaccines

Mohammad Kamruzzaman,  
Bangladesh

9:45-10:15

**COFFEE BREAK**

10:15-12:15

## SESSION IV – TUBERCULOSIS

Chaired by Sayera Banu, Bangladesh and Jonathan Hoffmann, France

10:15-10:35

Evaluation of screening and management strategies for TB infection in Madagascar and Cameroon.

Valerie Donkeng, Cameroon

10:35-10:55

Evaluation of screening and management strategies for TB infection in Madagascar.

Niaina Rakotosamimanana,  
Madagascar

10:55-11:15

Assessment of diagnostics to target beneficiaries of TB preventive treatment. (APRECIT-BIS).

Rim Bayaa, France (*online*)

11:15-11:35

Clinical evaluation of non-sputum-based assays for childhood and extra-pulmonary TB.

Mohammad Khaja Mafij Uddin,  
Bangladesh

11:35-11:55

Evaluation of host plasma protein biomarkers for tuberculosis treatment monitoring in Paraguay.

Graciela Russomando,  
Paraguay

11:55-12:15

Plasma host protein signatures correlating with *Mycobacterium tuberculosis* activity prior to and during antituberculosis treatment.

Mame Diarra Bousso Ndiaye,  
Madagascar





12:15-12:30 **Young Scientists Award ceremony chaired Mr Alain Mérieux**

12:30-12:45 **Closing of the GABRIEL Meeting**

13:00-14:00 **LUNCH** in presence of Mr Alain Mérieux

14:00 **DEPARTURE**

**SIDE EVENT**

14:30-16:30 Steering committee of “Data Science center” project  
*(Restricted access)*

14:30-16:30 Steering committee of APRECIT project *(Restricted access)*

