



# BioStruct-Africa

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The Company of  
Biologists



MiTeGen



**Hands-on training in structural biology, a tool for sustainable development in**

## **Africa: series 4**

**Where: Bamako, Mali at the *Malaria Research and Training Centre (MRTC)***

**Date: 25-28 April 2022**

**Organizer: BioStruct-Africa ([www.biostructafrica.org](http://www.biostructafrica.org))**

**Malaria Research and Training Centre, Bamako, Mali.**

## **Topics to be covered**

### **Day 1: 25<sup>th</sup> April 2022 (Times are in GMT and subject to change)**

**8:00 - 9:00** Welcome and registration of participants.

**9:00 - 9:50** Opening ceremony by Prof. Abdoulaye Djimde (MRTC/  
DELGEME).

**9:50 - 10:50** Introduction to structural biology by Dr. Michel Fodje (Canadian  
Light Source, Inc. Saskatoon, Saskatchewan, Canada).

**10:50 - 11:00** Coffee break

**11:00 - 12:00** Significance of Structural Biology for Africa by Dr. Emmanuel Nji  
(CNRS UMR 5234 Fundamental microbiology and pathogenicity, Bordeaux,  
France).

**12:00-14:00** Lunch break

**14:00-16:00** High through-put crystallization and structure-guided fragment-  
based drug design by Dr. Adeline ROBIN-TRAORE (EMBL Grenoble  
Outstation).

**Day 2: 26<sup>th</sup> April 2022 (Times are in GMT and subject to change)**

**9:00 - 10:40** Protein crystallization hands-on training by BioStruct-Africa.

**10:40- 11:00** Coffee break

**11:00-12:00** Crystal imaging by BioStruct-Africa.

**12:00-14:00** Lunch break

**14:00-16:00** Harvesting and cryo-cooling by BioStruct-Africa.

**Day 3: 27<sup>th</sup> April 2022 (Times are in GMT and subject to change)**

**9:00 - 10:40** X-ray crystallographic and Cryo-EM remote data collection and structural determination (ESRF).

**10:40 - 11:00** Coffee break

**11:00-12:00** X-ray crystallographic and Cryo-EM remote data collection and structural determination (ESRF).

**12:00 -14:00** Lunch break

**14:00 -17:00** X-ray crystallographic and Cryo-EM remote data collection and structural determination (ESRF).

**Day 4: 28<sup>th</sup> April 2022 (Times are in GMT and subject to change)**

**9:30-10:40** Data analysis (PDB, Pymol, ChimeraX) By BioStruct-Africa.

**10:40 - 11:00** Coffee break

**11:00-12:00** Data analysis (PDB, Pymol, ChimeraX) By BioStruct-Africa.

**12:00 -14:00** Lunch break

**14:00 -17:00** Participant presentations and feedback.

**17:00-18:00** Closing ceremony and refreshments by Prof. Abdoulaye Djimde (MRTC/DELGEME).

Yours sincerely,



Dr. Emmanuel Nji (on behalf of BioStruct-Africa)