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# **CLIMADE Africa: Accelerating Genomics in Africa**

**Dr. Monika Moir and Prof. Tulio de Oliveira**

Centre for Epidemic Response and Innovation (CERI), Stellenbosch University  
<https://ceri.org.za> | <https://climade.health> | Twitter: @tuliodna

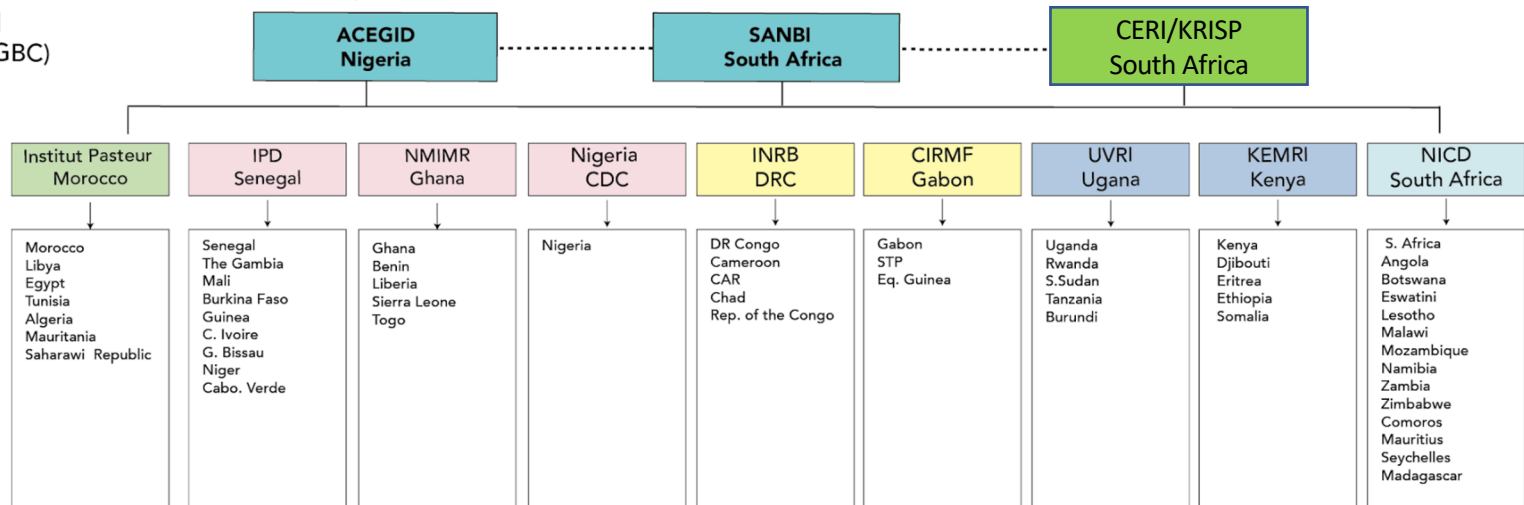
# Provide genomics sequencing for arboviral or acute febrile cases



Specialized Genomics and Bioinformatics Centers (SGBC)

Regional COVID-19 Sequencing Laboratories

National COVID-19 Sequencing Laboratories



Tessema et al. Lancet Microbe 2021

# Provide genomics sequencing for arboviral or acute febrile cases



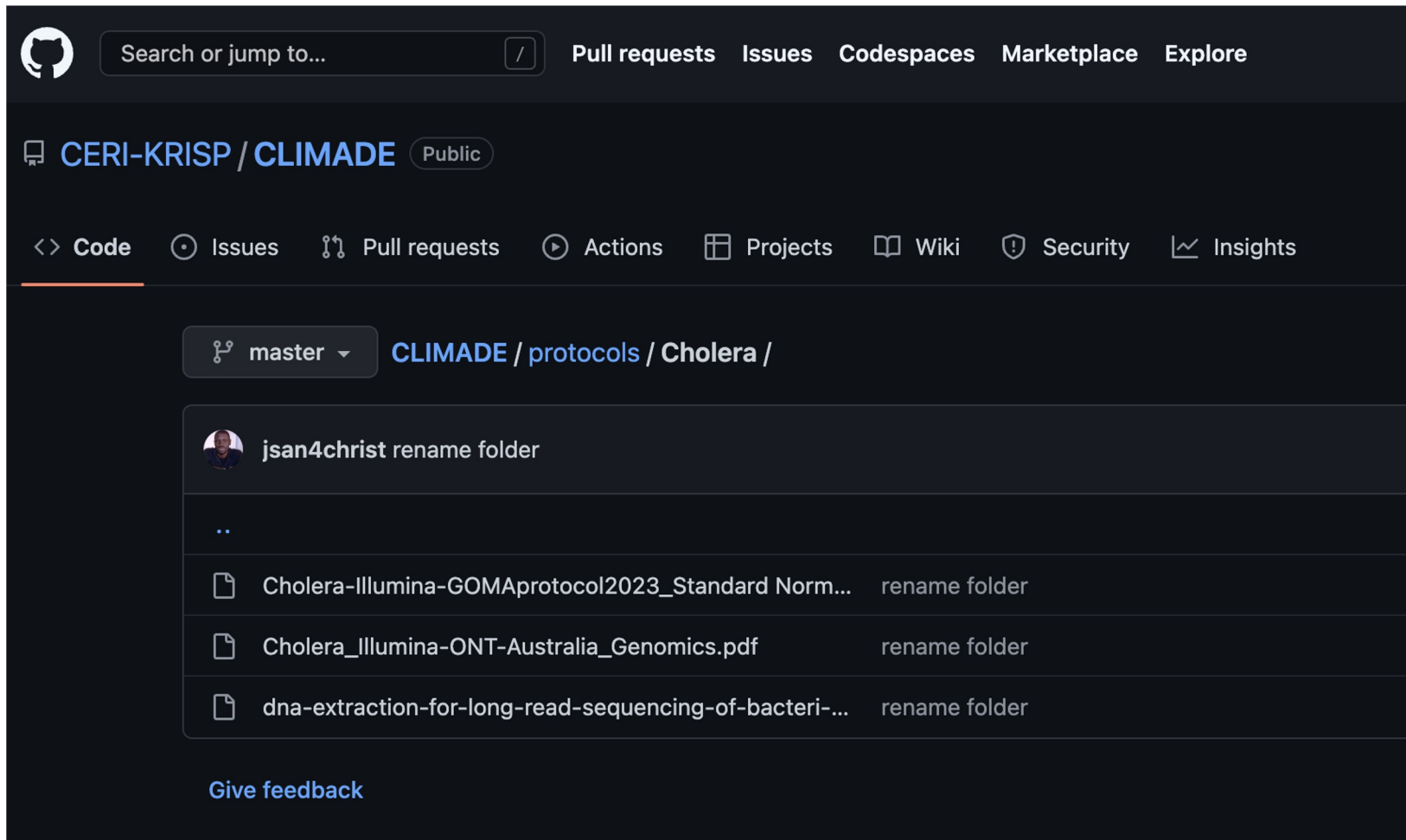
Whenever South African research institutions share human biological material and associated data for health research or clinical trials they are legally compelled to have a material transfer agreement (MTA) in place that uses as framework the standard MTA newly gazetted by the South African Minister of Health (SA MTA).

Our MTAs clearly state that the collaborator sending samples owns all of the data and CERI/KRISP are only data producers (paid from grants of WHO, AfricaCDC, and Rockefeller Foundation).

Kindly contact **Prof. Tulio de Oliveira ([tulio@sun.ac.za](mailto:tulio@sun.ac.za))**, **Dr. Cheryl Baxter ([cbaxter@sun.ac.za](mailto:cbaxter@sun.ac.za))**, **Mrs. Suzette Grobler ([grobler@sun.ac.za](mailto:grobler@sun.ac.za))** and/or **Mrs. Gugulethu Mkhize ([MkhizeG5@ukzn.ac.za](mailto:MkhizeG5@ukzn.ac.za))** for arrangements to establish an MTA.



# Open sharing of sequencing protocols for climate sensitive diseases (Please let us know which protocol you need?)



<https://github.com/CERI-KRISP/CLIMADE/tree/master/protocols/Cholera>



# Training workshops on genomics sequencing protocols



Over 100 training events since 2001 and over 30 since 2020.

Next hands-on training program:

- 10 - 21 April at CERl, Cape Town.
- Up to 35 participants (Please let us know if you want to send people from your organization)



Funded by WHO AFRO, Africa  
CDC/ASLM, Rockefeller Foundation and  
Abbott.

## Stakeholder engagement meetings



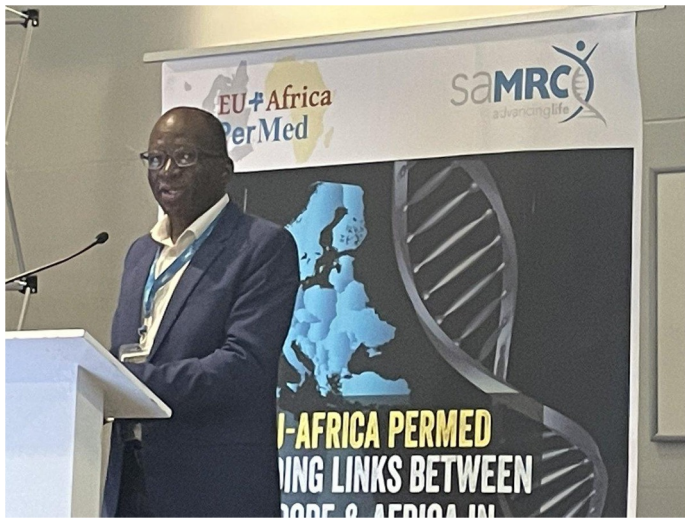
As suggested by, and together with the Africa CDC, Prof. Tulio de Oliveira will hold monthly stakeholder engagement meetings with heads of collaborating institutions.

\*Please kindly provide contact details for the leaders of your lab and institution as we would like to get their views and buy-in of the CLIMADE program.

## Summary and next steps

- 1) Please let us know if you would like us to produce genomic data for your group. For that we need an MTA to be signed. The group that sends samples will own all of the genomic data.
- 1) Please let us know which protocols you would like us to make available for sequencing. Malawi and Mozambique requested protocols for sequencing Cholera and we sourced 3 protocols. We have access and can share protocols for DENV, CHIKV, ZIKA, WNV, YFV, HIV, HCV, HBV, etc.
- 1) Capacity building program as part of 2 week hands-on workshop in April for 35 participants. Opportunities for short-term fellowship (up to 3 months) - finalising agreement with Africa CDC for 30 fellows in 2023.
- 1) Meeting with Heads of organisations together with Africa CDC (individual meetings) and monthly group meeting to develop CLIMADE in line with strategic needs of each organisation (Please provide contact details of lab Directors, CEOs, etc).





Prof. Collen Masimirembwa, ABiST, Zimbabwe

# Int. Congress of Human Genetics (ICHG 2023), Cape Town, this week

Prof. Tulio de Oliveira is attending and presenting at ICHG. He is meeting lots of African scientists and scientific leaders. Please feel free to suggest to Prof. Tulio de Oliveira to meet some of your colleagues to discuss the CLIMADE collaboration.



Prof. Moses Bockarie,  
EDCTP, South Africa



Prof. Segun Fatumo,  
MRC\_UG, Uganda

We are hosting a tour of our new CERi lab facilities on Wednesday (22 Feb 2023) after Prof. Darren Martin's Seminar.

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## Thank you

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