

## Special Issue

# Advanced Spatial-Temporal Statistics and Applications for Disease Mapping, Spatial Dependence and Capacity Building in Biostatistics in Sub-Saharan Africa Countries

### Message from the Guest Editors

Sub-Saharan Africa faces a high disease burden in communicable diseases and an increasing burden in non-communicable diseases with a strong spatial and temporal structure. More recently, increased funding for research from donor initiatives has generated high-quality household data volumes, but there is a high demand for biostatisticians to analyse these data locally and quickly, resulting in a lack of capacity for advanced data analysis. Donor-funded initiatives exist to address the dearth in statistical capacity, but few initiatives have been led by African institutions. The Sub-Saharan African Consortium for Advanced Biostatistics (SSACAB) aims to improve biostatistical capacity in Africa according to the needs identified by African institutions, through collaborative masters and doctoral training in biostatistics. In this issue, we present work resulting in our effort to build capacity in recent developments in Bayesian diseases mapping and especially the classes of Bayesian hierarchical space time models that have been used to characterise the patterns of communicable and non-communicable disease burden in SSA through SSACAB and beyond.

### Guest Editors

Prof. Dr. Ngianga-bakwin Kandala

Prof. Dr. Samuel Manda

Dr. Tobias Chirwa

Prof. Dr. Thomas N O Achia

### Deadline for manuscript submissions

closed (31 August 2022)



## International Journal of Environmental Research and Public Health

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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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### Editor-in-Chief

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