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Advancing Structural Biology in Africa: BioStruct-Africa's AlphaFold Training Initiative

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Abstract
AlphaFold is a groundbreaking AI tool developed to predict protein structures with remarkable accuracy, yet few scientists based in Africa have received training to use it effectively. From October 7–11, 2024, BioStruct-Africa (www.biostructafrica.org) held a hands-on training workshop in Douala, Cameroon, focused on structural biology. This workshop provided participants with expertise in AlphaFold structural prediction, analysis, interpretation, and utilizing AlphaFold2 models for screening small molecule compound libraries. Such training holds vast potential for advancing drug and vaccine development and fostering sustainable healthcare solutions across the continent. The recent Nobel Prize in Chemistry, partly recognizing AlphaFold's development, highlights the vital importance of capacity-building efforts in this transformative field.

Primary authors: Mrs FOFANA, Fatoumata G. (BioStruct-Africa, 10 Link Road, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.); Mr HEIBA, Walid (BioStruct-Africa, 10 Link Road, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.); Mrs SANKHE, Safiétou (BioStruct-Africa, 10 Link Road, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.); Dr NJI, Emmanuel (BioStruct-Africa, 10 Link Road, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.)

Presenter: Dr NJI, Emmanuel (BioStruct-Africa, 10 Link Road, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.)

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