

## **Drug discovery research, Sudan**

Sufyan Awadelkarim Mustafa\*

*Department of Medical Biochemistry Research, Medicinal and Aromatic Plants Research Institute, National Centre for Research, Khartoum, Sudan.*

**\*Corresponding author:** sufyan69@gmail.com

**Introduction:** Malaria and tuberculosis are important diseases in Sudan. Therefore, discovery of drugs for these diseases is very important to control these diseases.

**Methodology:** Lead compounds for the treatment of many infectious and endemic diseases such as malaria and tuberculosis were prepared. Diversed compounds from natural and synthetic sources against drug targets related to the causative agents of these diseases were discovered. Broad biochemical and molecular biology techniques such as gene expression and protein purification, enzyme inhibition and kinetics studies, lead optimization and computational chemistry were used.

**Results:** Our research has resulted in a battery of promising drug leads against many infectious and endemic diseases.

**Discussion:** Promising drugs are needed extensive field trials.