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Quality control for malaria subunit vaccines

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Malaria is one of most deadly infectious diseases in the world, with an estimated 350-500 million people suffering from malaria episodes and nearly 1 million deaths per year. Most of these episodes are caused by *Plasmodium falciparum* and *P. vivax* parasites. The world is in urgent need of a vaccine to combat against malaria. The quality control is one of the most important processes in vaccine research and development because it directly relates to the safety and efficacy of the vaccines. This presentation will focus on the quality control evaluation of malaria sub-unit vaccines. The biophysical/biochemical/biological methods involved in evaluating vaccine purity, identity, integrity, stability and potency will be discussed. These methods should have general applications for the quality control evaluation of subunit vaccines.

Biography

Ms. Daming Zhu obtained her BS from Jilin University, China and MS from China Agricultural University (formerly the Beijing Agriculture University, China). She is currently the Head of Quality Control Unit, Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health. She has published nearly 30 papers in peer-reviewed journals.