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A Systematic Review of Immobilised Enzyme Bioreactor Systems for the Biosynthesis of L-Glutamine: Purity and Stability Considerations for Sickle Cell Disease Therapy in an African Context

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Abstract

This study addresses a current research gap in Medicine concerning Biosynthesis of Sickle Cell Disease Therapeutic L-Glutamine Using Immobilized Enzyme Bioreactors at the Korle Bu Teaching Hospital, Accra: Purity and Stability Metrics in Morocco. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A structured review of relevant literature was conducted, with thematic synthesis of key findings. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Biosynthesis of Sickle Cell Disease Therapeutic L-Glutamine Using Immobilized Enzyme Bioreactors at the Korle Bu Teaching Hospital, Accra: Purity and Stability Metrics, Morocco, Africa, Medicine, systematic review This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.