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Analysis and Control of Antibiotic Dynamic Models

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Many infections are treated using antibiotics. The dynamics of treatment involving antibiotics are extremely nonlinear. Bifurcation analysis is a powerful mathematical tool used to deal with the nonlinear dynamics of any process. Several factors must be considered, and multiple objectives must be met simultaneously. Bifurcation analysis and multi-objective nonlinear m ...

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Dynamic Analysis and Optimal Control of Probiotic Dynamic Models

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Probiotic therapy involves using live microorganisms, primarily bacteria and yeasts, to improve or restore the balance of beneficial bacteria in the body, particularly in the gut. These microorganisms, when administered in adequate amounts, can offer health benefits to the host. Probiotic therapy is used for various conditions, including diarrhea, irritable bowel synd ...

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Mini Review

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A Biochemical Explanation of Some Nutritional Truths and Falsehoods

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Author(s): Philip G Penketh

This article was written in response to prevalent misinformation when the media is constantly bombarding the nutritionally uninformed public, often presented with potentially misleading information driven by commercial interests. ...

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