Advances in Bioinformatics

Bioinformatics tools for gene and genome annotation analysis of microbes for synthetic biology and cancer biology applications

Ekene Emmanuel Nweke[1,] Essa Suleman[2,] Morne Du Plessis[3,] Deepak B. Thimiri Govinda Raj[4,5,6,7]

[1.]Department of Surgery, University of Witwatersrand, Johannesburg, South Africa

[2.]Veterinary Molecular Diagnostics and Vaccines, Medical Devices and Diagnostics Impact Area, CSIR, Pretoria, South Africa

[3.]Bioinformatics and Comparative Genomics, South African National Biodiversity Institute, Pretoria, South Africa

[4.]Synthetic Nanobiotechnology and Biomachines, Centre for Synthetic Biology and Precision Medicine, CSIR, Pretoria, South Africa

[5.]Biotechnology Innovation Centre, Rhodes University, Grahamstown, South Africa

[6.]Department of Clinical Medicine, WITS University, Johannesburg, South Africa

[7.]University of Pretoria, Pretoria, South Africa

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Abstract

In this book chapter, we focus on application of genome annotation and analysis of microbes for synthetic biology and cancer biology research. We particularly emphasised on application of microbial genomics in synthetic biology and cancer biology. Finally, we delineated future perspective and potential route map for improving the microbial genome annotation and microbial genomics analysis. We infer that our future perspective strategies would assist in reshaping the genome annotation of microorganisms along with microbial genomics analysis. In addition, with better understanding on microbial genome annotation and microbial genomics analysis, we believe this would better enable synthetic biology and cancer biology applications.