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Biotechnology and people's health: The infectious diseases and phytonutraceuticals factorAbayomi Oguntunde¹, Victor O Fadipe^{1,2}, Fashina Sanya¹ and Ibrahim H Doko³¹Federal Ministry of Science and Technology, Nigeria²University of Zululand, South Africa³Raw Materials Research and Development Council, Nigeria

Phytonutraceuticals generally promises to have greater impacts on health delivery and its management ranging from drug discovery and disease diagnosis. Phytonutraceuticals in both developed and developing countries are alive with rare species that possess pharmacologically active constituents for possible cure of many chronic diseases such as cancer, Tuberculosis, HIV/AIDS, sickle cell anaemia, neurological disorders, and many metabolic diseases. Phytonutraceuticals is a mixture of compounds such as carotenoids, flavonoids and Isoflavonoids (Polyphenols), Phytates (Inositol phosphates), Lignans, Isothiocyanates and Indoles, Phenols, Sulphides and Thiols, Terpenes and thus serves as antioxidants, enhance immune response, enhance cell-cell communication, alter estrogen metabolism, repair DNA damage caused by smoking and other toxin exposures, others. The Phytonutraceuticals revolution began in the 1980s as a result of substantial evidence to support increase in life expectancy after its administration directly or as foods. The high cost of orthodox medicine pave way for the emergency of Phytonutraceuticals in countries like US, EU and JAPAN. Most African countries rural dwellers depend on Phytonutraceuticals. Literature have it that, most of these plants from savannah and tropical rainforest bio accumulates such Phytonutraceuticals in minute's quantities that are not enough to characterise it and biotechnology is right now the rapidly advancing frontier of science. It has illuminated more deeply and more extensively many genetic, chemical, physiological, and mathematical processes which can be used to mass produce biologically active Phytonutraceuticals in plants. The main objective of the study is to bring to fore the advance in evolution of biotechnology techniques as it affects Phytonutraceuticals development. This will further strengthen research collaboration involving botanist, biotechnologist and chemist etc to further strengthening better health care management.

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