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HIV target receptors and its interactions with Phytochemicals

Anamika Singh University of Delhi, India

A t present whole world is locked because of a virus. Exposure to virus leads to expansion of its colonies, they are easily communicable and colonized easily, they are having ability to mutate frequently. Similarly, Human immunodeficiency virus (HIV) causes a chronic disease in human that is known acquired immune deficiency syndrome (AIDS). HIV came into picture in early 80s, and it is still successfully surviving. Nature is the best healer for many diseases. Plant and plant based products are always welcomed globally by scientist for the treatment of diseases. In the present study we are trying to explore the medicinal plants which are proved scientifically for the treatment of HIV. The main phytochemicals and there structure are still an issue and we are trying to explore the data. Antiretroviral therapy (ART) is available and widely accepted for the treatment of HIV, but it is having serious concerns with side effects. Although we are far a par in science and technology but still try to find solutions for virus infections like HIV. Plants provide safest natural drugs and always open doors for novel research for the betterment of human beings. Provide opportunities for novel research. Trigonostem axyphophylloides, Rheum palmatum L., Rheum officinale, Vatica astrotricha, Vernonia amygdalina, Sidoides hemerocallidea Hypoxias pelargonium, and Sutherlandia frutescens etc shows high efficacy to cure HIV.

Biography

Dr. (Mrs.) Anamika Singh is currently working as Assistant Professor in Maitreyi College, University of Delhi. She has Ph.D. degree in Bioinformatics from Indian Institute of Information Technology, Allahabad (IIIT-A). She is having nine years teaching and research experience. Her area of research interest is Genetic Engineering, Bioinformatics, Biological Databases, Phylogeny, Molecular modelling, Drug Designing, Computer based Drug designing, Computational Biology etc. Dr. Singh is member of Indian Bioinformatics society, APBioNet, European Federation of Biotechnology and IAENG. She is also actively involved as reviewing research articles of different journals. She has organized National, international conferences, faculty development programs and workshops in different platforms. She has published more than ten papers in reputed journals and more than twenty book chapters. She has also authored a book in Biochemistry.