Production of recombinant antibodies in plants

Recombinant antibodies can be used to diagnose, treat and prevent disease by their specific antigen-binding activities. Advances in molecular biology, immunology, and plant biotechnology have changed the plants to bioreactor to produce valuable recombinant proteins. These include therapeutic or diagnostic monoclonal antibodies, vaccines, and other biopharmaceutical proteins. The plant as a bioreactor for the production of therapeutic proteins has several advantages, which include the lack of animal pathogenic contaminants, low cost of production, and ease of agricultural scale-up compared to other currently available systems. Here, we discuss the approaches and perspectives in plant systems to produce recombinant antibody

Keywords: Recombinant antibody, Immunity, Transgenic plants

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