Characteristics of Lysosome and Their Utilizations

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There have been developed therapeutic agents to remove some common bacteria and rapid emergence of new infections and cosmetics for antiaging using by organic and inorganic materials for decades. However, nowadays, the need for the development of eco-friendly agents should be very rapid, cost effective and nontoxic. Lysosomes are important against all other subcellular constituents due to their polymorphism as well as their involvement in both physiological and pathological processes. Lysosomes, which generally contain 50-60 hydrolases that constitute the cellular site for bulk macromolecule degradation, function to mediate several processes in the cell. They are single membrane bound cytoplasmic organelles involved in the degradation of intracellular protein. Lysosomal enzymes in lysosomes can be used as endocytosis for inhibiting bacteria phagocytosis as well as in antimicrobial activity and treatment of melanin. In this study, we would like to adapt to lysosomes isolated from hen`s egg white, *S. cerevisiae* and animal cells. This work was carried out with the support of "Cooperative Research Program for agriculture Science & Technology Development (Project No:PJ01052701)' Rural Development Administration, Republic of Korea