

**Production and property of biodiesel by *Cryptococcus albidus* via using carbon sources and nitrogen sources**

박권우, 정권수, Charles Seo, 장호남\*  
KAIST  
(hnchang@kaist.edu\*)

Due to the shortage of fossil fuels, the study of renewable energy continues upward. Especially, bioenergy, which is one of the renewable energy increases production and consumption. It is eco-friendly energy and gives positive effects. For example, some countries give advantages such as tax reduction for those who use biodiesel or bioethanol.

However, Biodiesel is more expensive than fossil diesel and nowadays most material of biodiesel is crop lipid. Crop consumption for the production of biodiesel can result in increase of food cost. Thus, many researchers study about microbial lipid which do not relate to food cost.

Cell mass and lipid content are the most important factor in microbial lipid production. We know what feed can grow microorganism fast and high while accumulating lipid. Carbon sources and nitrogen sources are effective for cell mass and lipid accumulation.

In this study, we will find microbial biodiesel production property using *Cryptococcus albidus*, one of oleaginous yeast.