

**Genetic Improvement of Lysine Production from
Yeast (*Saccharomyces cerevisiae*) Mutants
Resistant to Lysine Sulfur analog**

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THESIS

**Submitted in Partial Fulfillment for
the Requirements for Master of Science**

In

Agriculture Science (Genetics)

Department of Genetics

Faculty of Agriculture

Cairo University

Fayoum

1997

ABSTRACT

The present investigation was carried out to develop yeast strains capable to supply lysine, different in wheat protein, by using UV irradiation and EMS.

The mutant's strains were tested under different environmental conditions, such as different sources of carbon and nitrogen, temperature and pH. The production of lysine in the mutant's strains did not effect on the fermentation capability.

Keywords: Lysine production, Mutants, UV irradiation, EMS, *Saccharomyces cerevisiae*, RAPD-PCR, Plasmids, Curing.