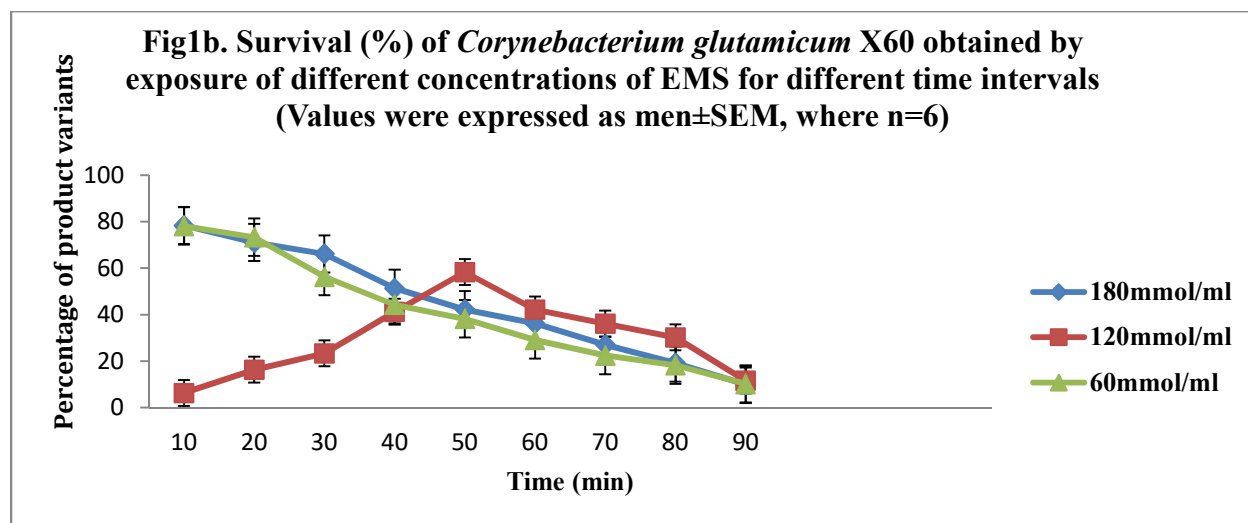


# Isolation, Characterization and improvement on a Wild strain of *Corynebacterium glutamicum* for L-glutamic acid production

\*Subhadeep Ganguly

Department of Physiology

Vidyasagar College, 39, Sankar Ghosh Lane, Kolkata-700006



## Abstract

### Background

L-glutamic acid is a nonessential, proteinogenic amino acid, largely used as a flavoring agent, animal food additive and also in therapeutic purposes. Different strains of *Corynebacterium glutamicum* are widely used for its large scale production by means of fermentation.

### Methods

The present study was aimed to isolate and characterize an wild strain of *Corynebacterium glutamicum* from North Bengal soil and then to develop high L-glutamic acid yielding mutant strain from it by subjecting it to subsequent random mutagenic treatments using UV irradiation and EMS respectively.