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EFFECT OF MOBILE PHONE RADIATION ON SOLUBLE PROTEINS: GERMINATION OF *Phaseolus aureus* SEEDS AS MODEL SYSTEM

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ABSTRACT

The effect of mobile phone radiation (electromagnetic radiation in microwave region) on human health has become a subject of recent interest due to increase in the number of mobile phone users over the past few years. Many scientific studies/investigations on the possible effect of mobile phone radiation have been carried out in recent past. A report claimed that an egg was cooked when kept between two mobile phones which raised a chilling question, *"Imagine what it can do to the proteins in our ears and brain*". Normally during incoming and outgoing calls the user place only one phone near the ear. Therefore in the present investigation attempt was made to study the effect of mobile phone radiation on germination of soaked seeds of *Phaseolus aureus* (Moong seeds). It was hypothesized that thermal effect will alter the germination pattern of these seeds. The experiments were designed in such a way that the mobile phone in call on mode was kept towards the soaked seeds for different time periods. The exposed seed samples along with control (unexposed) seeds were kept for germination at room temperature. In comparison to control the exposed seeds were slightly withered, and quantity and quality of germination was significantly affected.

Keywords: Electromagnetic Radiation, *Phaseolus aureus* (Moong seeds),

INTRODUCTION

The enormous increase in mobile phone usage throughout the world (as of November 2011, there were more than 5.981 billion subscriptions worldwide) created the interest among the researcher to study the possible effects on the human health. Mobile