Dr Ambedkar college, Deekshabhoomi

Guest Lecture

Lipid Induction by Nitrogen Starvation

By

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Department of Zoology, Department of Chemistry and Department of Botany organised a guest lecture on 10/08/2018 . The guest was **Dr Nishikant Wase**, Senior Research Associate, **University of Nebraska- Lincoln United States.**   Dr Wase delivered a lecture on "Lipid Induction by Nitrogen Starvation'. Dr R S Bagde, HOD, Zoology Department welcomed Dr Wase. Dr Wase discussed his research on production of lipids using algae an natural synthesiser. The prices of oil are increasing every year due to population explosion and limited resources . To reduce the prices of resources, either population has to be controlled or the quantity of resources must be increased. Dr Wase explained his work on production of oil or lipids without using much land and by increasing production through algae. As algae grows on contaminated water bodies and less nourishment has to be supplied to these water bodies, it becomes a cheap source of production of oils and lipids. His initial research showed excellent results.

Dr Wase mainly focussed on Chlamydomonas which is a species of microalgae . Dr. Wase gave a brief historical background, potential of algae as a feedstock. He explained how the experiments on N starvation showed drastic effect on productivity of lipids. He elaborated on targeted screens to identify compounds that targets specific protein or gene products. Dr Wase explained how he identified more than 200 species of algae that induce lipid synthesis. He further explained how he Identified lead compounds which showed high level of lipid induction in algae. Dr Wase satisfied students queries on the topic. Dr Deepa Panhekar, HOD , Chemistry Department presented memento to Dr Wase. Mr S Somkuwar, HOD, Botany department proposed vote of thanks. Dr Archana Meshram conducted the programme. Teaching and non teaching staff members attended the programme.