

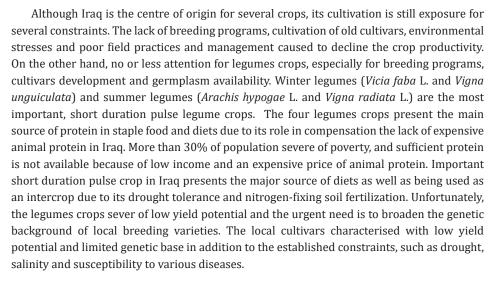


Quantitative and Qualitative Improving of Legumes Production Using Nuclear Techniques and Package of Technology with Mutation Induction

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Editorial



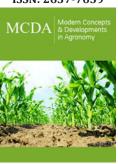
However, mutation breeding program must be carried to break the yield potential barriers. Emphasis on broadening the genetic base of the crop by introducing an exotic germplasm and induced mutations for the target objectives to enhance an efficient and high out-yielding cultivars and developing field management under irrigated and rain-fed agriculture must be considered. Mutation induction, using gamma rays, revealed the most successions of creating useful genetic variability which serve deducing of an exceeded crop cultivation breeding program to this crop may be implemented to break the yield potential barriers, enhancing tolerant to environments stresses and increasing the efficiency of biological nitrogen f s, enhancing tolerant to environmental stresses, increasing the efficiency of biological nitrogen fixation and possibility of better water productivity. Therefore, applying new technologies and nuclear techniques will contribute in sustaining legumes cropping, production ecosystems, assist farmers and small Salk holders to improve their incomes and secure good protein supply to their families.

The objectives are:

Develop and deduce new crop cultivars characterized with high yield potential and desired characteristics of short stature, determinate growth, earliness in flowering and enhance uniformity in pod maturity with favourable level of drought and salt tolerance and biotic stress.

- a) Increasing efficiency of the biological nitrogen fixation.
- b) Evaluation of the soil stresses on BNF efficiency.
- c) Maximum exploitation for affected soils with drought and negligible inputs.

ISSN: 2637-7659



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Submission: i June 07, 2019 **Published:** i June 17, 2019

Volume 4 - Issue 4

How to cite this article: Dheya P Y. Quantitative and Qualitative Improving of Legumes Production Using Nuclear Techniques and Package of Technology with Mutation Induction. Mod Concep Dev Agrono.4(4). MCDA.000593.2019.

DOI: 10.31031/MCDA.2019.04.000593

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- d) Enhancing plant and soil system horizontally and vertically.
- e) Application of ionizing radiation with tissue culture to increase the mutation frequency and provide a wide range of variability for selection.
- f) Improve the production via the application of mutation and molecular marker assisted selection technique.
- g) Improving the socioeconomic approaches throughout rehabilitation of farmer's livings and establishment.
 - h) Exploitation of the current crop genetic adaptability.

- i) Utilization of the methods recombination among all available breeding trends and germplasm exchange.
 - j) Utilization of the available expert philosophy in IAEA.
- k) The ability to apply the program in multi-locations of the targeted area. $\label{eq:k}$
- I) Measurement and estimates all reflected outputs on farmers and land establishment.
- m) The capacity building for scientists, researchers, technicians and farmers.

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