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Impact of animal waste on environment, its managemental strategies and treatment protocols to reduce environmental contamination

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Abstract : The role of animals in the development of developing nations is imperative. Not only the developing nations but the developed nations also depend upon their animal wealth for their livelihood and nutrition. The number of farm animals is increasing day by day globally, which is although a positive sign for mitigating the widespread hunger and malnutrition but on the other hand, the growing livestock population is posing a great threat to environment in the form of animal wastes. Animal scientists are focusing more on the sustainable increase in the livestock production systems whether it is production of meat, milk, eggs or fibre but are least concerned about the wastes emerging out from the livestock industry and livestock itself. The unconditional use of chemicals in the agriculture and livestock industry has not only raised an environmental concern but also a health concern for the humans. The excretions from the animals have the residues of certain chemicals which are noxious for humans as well as for environment. Further, the excretions of diseased animals may have certain zoonotic pathogens which are very harmful for humans and can remain in soil for several days to weeks. The active compounds in the animal excretions and the effluents erupting from the livestock products and processing industries pose a greater threat to all the components of environment. The fusion of traditional managemental procedures with advanced research can better serve the purpose of animal waste management.

Key words : Animal waste, Management, Environment, Chemicals, Livestock, Zoonosis

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