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human activities regularly emit xenobiotics into the environment causing pollution and harming human and natural ecosystems however certain xenobiotic degrading bacteria and fungi have been identified here we demonstrate the dramatic effect that environmental xenobiotics have on gut microbial communities shaping their composition and boosting the selection of strains with degrading capacity this review provides information on the legislation and classification of xenobiotics the effect of xenobiotics on the environment humans and animals and how to minimize these effects it also provides an overview of the method of detection and removal of xenobiotics 1 introduction ongoing pollution due to anthropogenic activities poses a significant threat to the environment and health of its inhabitants until recently human health was the primary focus of risk assessment in the context of the risk analysis framework the following chapter explores types and sources of various xenobiotics the introduction of xenobiotics in the atmosphere and soil pathways and migration in the soil and aquatic systems with emphasis on pharmaceutical chemicals and decomposition of pharmaceutical chemicals in the environment this review article discusses classic and recent findings in toxicomicrobiomics with examples of interactions between gut

skin urogenital and oral microbiomes with pharmaceutical food derived and environmental xenobiotics the harmful impact of xenobiotics on the environment and human health is being more widely recognized yet inter and intraindividual genetic variations among humans modulate the extent of harm mostly through modulating the outcome of xenobiotic metabolism and detoxification other xenobiotics such as environmental or chemical pollutants can also impact gut bacterial communities here we review the mechanisms of interactions between gut bacteria and antibiotics this review provides information on the legislation and classification of xenobiotics the effect of xenobiotics on the environment humans and animals and how to minimize these effects it also provides an overview of the method of detection and removal of xenobiotics environmental xenobiotics are xenobiotic compounds with a biological activity that are found as pollutants in the natural environment pharmaceuticals pharmaceutical drugs are chemicals used for the alteration diagnosis prevention and treatment of disease health conditions or structure function of the human body environmental contamination by xenobiotics is a worldwide phenomenon as a result of human activities resulting from rise in urbanization and population growth there are numerous sources of xenobiotics ranging from pharmaceuticals to agriculture recently the demand for pharmaceuticals versus population growth has placed the public at risk human gut microbes metabolize xenobiotics the microorganisms that inhabit the human gut alter the chemical structures of ingested compounds including dietary components industrial chemicals and drugs these changes affect xenobiotic toxicity biological activity and

bioavailability xenobiotics are chemicals or compounds that are foreign to a biologic system exposure to xenobiotics may occur via the air water diet bedding caging and or equipment or may be pharmacologic agents intentionally introduced as part of the routine conditioning or experimental procedure in this review we examine the development of autoimmunity elicited by exposure to environmental factors with emphasis on chemical agents that are often referred to as xenobiotics because they are foreign chemical substances that are not naturally produced by or present in organisms the harmful impact of xenobiotics on the environment and human health is being more widely recognized yet inter and intraindividual genetic variations among humans modulate the xenobiotics such as polychlorinated biphenyls pcbs polycyclic aromatic hydrocarbons pahs and trichloroethylene tce accumulate in the environment due to their recalcitrant properties and have become an environmental concern due to their toxicity and accumulation environmental toxicology biodegradation of xenobiotics a c anderson ph d abstract number of ways the xenobiotic may microbes have a remarkable array of enzymes which may treat foreign serve as a substrate be cometabolized compounds xenobiotics in several ways article 16 january 2024 enantioselectivity of chiral pesticides in the environment chapter 2013 introduction the term xenobiotic is derived from the greek words xenos and bios vios which mean foreigner or stranger and lives respectively determining xenobiotics in environmental samples is challenging because the compounds are often present at low concentration levels that are difficult to detect and there are a variety of xenobiotics are foreign compounds that include not only drugs but also environmental

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