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abiotic stress, biotic stress, resistance, silicon. Role of silicon in enhancing the resistance of plants to ... Introduction. Abiotic stress limits crop productivity (Araus et al., 2002; Boyer, 1982), and plays a major role in determining the distribution of plant species across different types of environments. Abiotic stress and its effects on plants in both natural and agricultural settings is a topic that is receiving increasing attention because of the potential impacts of climate change on rainfall ... Methods and concepts in quantifying resistance to drought ... Plants undergo different biotic and abiotic stresses that reduce agricultural yields and productivity. Crops are subjected to diverse types of environmental stress (e.g., extreme salinity, drought ... (PDF) Biotic and Abiotic Stresses in Plants Salt and drought stresses are two primary abiotic stresses that inhibit growth and reduce the activity of photosynthetic apparatus in plants. Abscisic acid (ABA) plays a key role in abiotic stress regulation in plants. Some aldo-keto reductases (AKRs) can enhance various abiotic

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