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(54) Title: METHODS FOR REDUCING OXIDATIVE DAMAGE

(57) Abstract: The invention provides a method for reducing oxidative damage in a mammal, a removed organ, or a cell in need thereof. The method comprises administering an effective amount of an aromatic cationic peptide. The aromatic cationic peptide has (a) at least one net positive charge; (b) a minimum of three amino acids; (c) a maximum of about twenty amino acids; (d) a relationship between the minimum number of net positive charges (p_m) and the total number of amino acid residues (r) wherein $3p_m$ is the largest number that is less than or equal to r+1; (e) a relationship between the minimum number of aromatic groups (a) and the total number of net positive charges (p_t) wherein 3a or 2a is the largest number that is less than or equal to p_t+1, except that when a is 1, p_t may also be 1; and (f) at least one tyrosine or tryptophan amino acid.