

Project Number: 5R03DE019177

Contact PI / Project Leader: [OZ, HELIEH S](#)

Title: NOVEL MURINE
MODEL OF CHRONIC
INFLAMMATORY
PERIODONTITIS

Awardee Organization: UNIVERSITY
OF
KENTUCKY

Abstract Text:

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Public Health Relevance Statement:

Narratives Chronic inflammation of the oral cavity destroys the soft and hard tissues of the periodontium (ie. periodontitis) and causes tooth loss. These pathological changes can result from dysregulated production of reactive oxygen species. Specific aims for this proposal will examine targeted antioxidant therapies using mouse models of oral disease as a potential strategy for adjunctive management of human periodontitis.

NIH Spending Category:

Autoimmune Disease; Biotechnology; Crohn's Disease; Dental/Oral and Craniofacial Disease; Digestive Diseases; Infectious Diseases; Inflammatory Bowel Disease

Project Terms:

Acute; alveolar bone; Alveolar Bone Loss; Angioplasty, Transluminal, Percutaneous Coronary; Animal Model; Animals; antioxidant therapy; Antioxidants; Biological Models; bone loss; Bone Resorption; Carboxylic Acids; Cells; Characteristics; Chronic; Chronic Disease; Clinical; Complex; Crohn's disease; Cuprozinc Superoxide Dismutase; Cysteine; Data; Disease; Disease Outcome; disorder control; environmental stressor; Epithelium; Evaluation; Event; Experimental Designs; gastrointestinal; Genetic; Genomics; Genotype; Gingiva; Glutathione; Homeostasis; Human; Immune response; Inbred BALB C Mice; Incidence; Inflammation; Inflammatory; inflammatory bone resorption; Inflammatory Bowel Diseases; Inflammatory Response; Knockout Mice; Lesion; Ligature; Literature; loss of function; Medicine; Metallothionein; microbial; Modeling; Molecular; Molecular Probes; mouse model; Mouth Diseases; mucosal site; Mucositis; Mucous Membrane; Mus; novel; Oral; Oral cavity; oral tissue; Organ; Pathway interactions; Periodontal Diseases; Periodontitis; Periodontium; Play; Population; Process; Prodrugs; Production; Proteins; public health relevance; Reactive Oxygen Species; response; Rheumatoid Arthritis; Risk; Role; Seminal; Sulfonic Acids; Superoxide Dismutase; Symptoms; Testing; Therapeutic; Tissues; Tooth Exfoliation; Tooth Loss; Translating; Trinitrobenzenes; Variant; Wild Type Mouse; Work
