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Resistance and resilience to experimental gingivitis

A systematic scoping review

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Additional file 2

Parameters	Function	References
Microbiology		
<i>Porphyromonas gingivalis</i>	Gram-negative rod, associated with periodontal disease	7
<i>Treponema denticola</i>	Gram-negative spirochete, associated with periodontal disease	7
<i>Tannerella forsythia</i>	Gram-negative, associated with periodontal disease	7
<i>Peptostreptococcus micros</i>	Gram-positive, non-spore, associated with periodontal disease	6
<i>Streptococcus</i> spp	Gram-positive, coccus, some species are pathogenic most species are not	6
<i>Aggregatibacter actinomycetemcomitans</i>	Gram-negative, non-motile bacterium, associated with localized aggressive periodontitis	6
<i>Campylobacter rectus</i>	Gram-negative, motile bacillus, pathogen in chronic periodontitis	6
<i>Fusobacterium nucleatum</i>	Gram-negative, plays a role in periodontal disease	6
Immunology		
Intercellular adhesion molecule (ICAM)	Binding of cells to each other, to endothelial cells or extracellular matrix	19
IgA	Antigen neutralization	20
IgG	Antigen neutralization	21
IgM	Antigen neutralization	21
IL-1	Regulates immune and inflammatory reactions, stimulates bone resorption	18
IL-1 β	Lymphocyte activating factor	15,17,19,26
IL-2	Regulates white blood cell activities	19
IL-4	Anti-inflammatory, macrophage inhibition, Th2 differentiation	19,26
IL-5	Stimulates B-cell growth and increases immunoglobulin secretion	19
IL-6	Regulator of T- and B-cell growth, acute phase protein production	15,19,24
IL-8	Recruitment and activation of neutrophils	24,26
IL-10	Anti-inflammatory effect	19
Lymphocytes	Subtype of white blood cell containing natural killer, T- and B-cells from adaptive immune response	16
Leukocytes	Group of white blood cells	22,25
Macrophages	Engulfs and digests substances and microbes	16
Monocyte chemoattractant protein-1 (MCP-1)	Protein that regulates the migration and infiltration of monocytes/macrophages.	28
PMNs	Antimicrobial function	15,22,25

Plasma cells	Secretion of antibodies	16
Leukotriene B4 (LBT4)	Adhesion and activation of leukocytes, chemoattractant	17
Prostaglandin E2	Pro-inflammatory and immunomodulatory effects	17
Thromboxane B2 (TxB2)	Stimulates activities and aggregation of new platelets	17
Biochemistry		
Cyclooxygenase-2	Catalyses acid to Prostaglandin	13
Cystatin	Inhibition of proteolysis	10
Cystatin C	Inhibition of proteolysis	10
Elastase	Cleavage of elastin, collagen, proteoglycans	14,15
Lactoferrin	Antibacterial, creates iron-limiting environment	9,11
Transferrin	Antibacterial agent, creation iron-limiting environment	9,21
Vascular endothelial growth factor (VEGF)	Signal protein to create new blood vessels after injury.	28

