**Supplementary Table 1.** Changes of various T cell subtypes in periodontitis.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subtypes** | **Th1 cells** | **Th2 cells** | **Th17 cells** | **Tregs** | **CD8**(+)**Tregs** |
| **Number** | Increase | Decrease  (Increase) | Increase | Decrease  (Increase) | No change |
| **Inducing factor** | Serotype B *A. actinomycetemcomitans* | / | serotype B *A. actinomycetemcomitans*, Pg-LPS, switched memory B cell | MDSCs  FOXO1 | / |
| **inhibitory factor** | RvD2 | / | *T. forsythia*-specific glycan portion | / | / |
| **Features** | TBX21-1993T /C (RS4794067) | / | Dependent on the local probiotics, requiring IL-6 and IL-23 | / | / |
| **Molecular expression** | IFN-γ, TNF-α, IL-1β, IL-18, T-bet | IFN-γ, TGF-β, IL-4 | RANKL, OPG, IL-6, TNF-α, IFN-γ, IL-1β, IL-17A | IL-10 and TGF-β | IL-1β、IL-6、IL-17A、RANKL |
| **Result** | Promote periodontitis | Inflammation lessens when Th2 cells assist T cells  Osteoprotective role in periodontitis | Bacterial invasion leads to the generation of specialized TH17 cells which may have developed to stop local infection by inducing tooth loss, function as a double-edged sword by protecting against pathogens while also inducing skeletal tissue degradation | Protect periodontal tissue from inflammatory destruction and play an active regulatory role in periodontitis;  Play a more prominent role in periodontitis than Th17 cells | Affect the homeostasis of alveolar bone by regulating Tregs/Th17 cells;  Reduce the above lesions;  Reduce alveolar bone destruction and osteoclast formation |
| **Reference** | (1-6) | (3, 7, 8) | (4, 5, 9-15) | (15-21) | (15) |

MDSCs: myeloid dendritic suppressor cells; FOXO1: Forkhead box protein O1; RvD2: docosahexaenoic acid (DHA) metabolite resolvin D2; T-bet: T-cell-specific T-box transcription factor; TBX21-1993T /C (RS4794067): Tbx21 genetic polymorphism, facilitates the occurrence of Th1 immune response

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