Periodontitis is associated to increased systemic inflammation in post-myocardial infarction patients

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SUPPLEMENTAL MATERIAL
Suppl Figure 1. Influence of diabetes on the inflammatory protein profile in plasma.
A. Scores plot after principal component analysis based on 71 plasma proteins showing no evident separation between diabetes (blue) and non-diabetes participants (grey).
B. Volcano plot depicting log2 fold-change (FC) in normalized protein expression and -log10 p-values of plasma proteins in diabetes (n=35) versus non-diabetes participants (n=165) who had a myocardial infarction. Significantly increased proteins in diabetes are shown in blue (t-test, FDR<0.05).
C. String-based protein-protein interactions with proteins significantly altered in diabetes. Nodes are color-coded according to their biological processes shown in (D).
D. Top 5 most significant gene ontology (GO) biological processes overrepresented in proteins up-regulated in diabetes.
Suppl Figure 2. Plasma inflammatory profile according to sex and smoking.

A. Scores plot after principal component analysis based on 71 plasma proteins showing with samples color-coded according to sex, males (blue) and females (grey).

B. Scores plot after principal component analysis based on 71 plasma proteins showing with samples color-coded according to smoking status at follow-up visits, non-smokers (grey), former smokers (orange) and current smokers (blue).
Suppl Figure 3. Inflammatory protein profile in plasma from patients who had a myocardial infarction in relation to bone loss.

A. Volcano plot depicting log2 fold-change (FC) in normalized protein expression and -log10 p-values of plasma proteins in periodontitis (n=49) versus non-periodontitis patients (n=47) who had a myocardial infarction. Significantly increased proteins in periodontitis are shown in blue (t-test, FDR<0.05).

B. β-coefficients and 95% confidence intervals for the association between periodontitis and significant biomarkers identified in (A) after adjustment for age and smoking status.

C. Pearson correlation analysis of white blood cell count (WBC) with radiographic bone loss and pocket depth (PPD) ≥ 6mm in all participants.

D. Pearson correlations between plasma proteins and WBC. All proteins were assessed, but only significant correlations (FDR<0.05) are depicted.
### Suppl Table 1. List of proteins included in the Olink® Inflammation panel.

| Protein ID | Name                                      | Uniprot ID  |
|------------|-------------------------------------------|-------------|
| Q13541     | Eukaryotic translation initiation factor 4E- |             |
| P00813     | Adenosine Deaminase                       |             |
| Q5TF4W7    | Artemin                                   |             |
| Q15169     | Axin-1                                    |             |
| P23560     | Brain-derived neurotrophic factor         |             |
| Q14790     | Caspase-8                                 |             |
| P51671     | C-C motif chemokine 11                    |             |
| Q97371     | C-C motif chemokine 19                    |             |
| P78556     | C-C motif chemokine 20                    |             |
| P55773     | C-C motif chemokine 23                    |             |
| Q15444     | C-C motif chemokine 25                    |             |
| Q9NR3F     | C-C motif chemokine 28                    |             |
| P10147     | C-C motif chemokine 3                     |             |
| P13236     | C-C motif chemokine 4                     |             |
| Q9BZW8     | Natural killer cell receptor 2B4          |             |
| P25942     | CD40L receptor                            |             |
| P06127     | T-cell surface glycoprotein CD5            |             |
| Q9WW37     | T cell surface glycoprotein CD6 isoform   |             |
| Q9HF5V8    | CUB domain-containing protein 1           |             |
| P96603     | Macrophage colony-stimulating factor 1    |             |
| P28325     | Cystatin D                               |             |
| P78423     | Fractalkine                               |             |
| P90341     | C-X-C motif chemokine 1                   |             |
| P02778     | C-X-C motif chemokine 10                  |             |
| Q14625     | C-X-C motif chemokine 11                  |             |
| P42830     | C-X-C motif chemokine 5                   |             |
| P80162     | C-X-C motif chemokine 6                   |             |
| Q70325     | C-X-C motif chemokine 9                   |             |
| Q8NFT8     | Delta and Notch-like epidermal growth    |             |
| P80511     | Protein S100A12                           |             |
| Q95750     | Fibroblast growth factor 19               |             |
| Q9NSA1     | Fibroblast growth factor 21               |             |
| Q9GZV9     | Fibroblast growth factor 23               |             |
| Q8NF90     | Fibroblast growth factor 5                |             |
| P49771     | Fms-related tyrosine kinase 3 ligand      |             |
| P97711     | Gliarial cell line-derived neurotrophic   |             |
| P39905     | Hepatocyte growth factor                  |             |
| P14210     | Interferon gamma                          |             |
| P01579     | Interleukin-10                            |             |
| P22301     | Interleukin-10 receptor subunit alpha     |             |
| Q13551     | Interleukin-10 receptor subunit beta      |             |
| P29460     | Interleukin-12 subunit beta               |             |
| P35225     | Interleukin-13                            |             |
| Q13261     | Interleukin-15 receptor subunit alpha     |             |
| Q16552     | Interleukin-17A                           |             |
| Q9P0M4     | Interleukin-17C                           |             |
| Q14116     | Interleukin-18                            |             |
| Q13478     | Interleukin-18 receptor 1                 |             |
| P01583     | Interleukin-1 alpha                       |             |
| P60568     | Interleukin-2                            |             |
| Q9NYY1     | Interleukin-20                            |             |
| Q9UHF4     | Interleukin-20 receptor subunit alpha     |             |
| Q8N0P7     | Interleukin-22 receptor subunit alpha-1    |             |
| P13007     | Interleukin-24                            |             |
| P14784     | Interleukin-2 receptor subunit beta       |             |
| Q95760     | Interleukin-33                            |             |
| P05112     | Interleukin-4                             |             |
| P05113     | Interleukin-5                             |             |
| P05231     | Interleukin-6                             |             |
| P13232     | Interleukin-7                             |             |
| P10145     | Interleukin-8                             |             |
| P01137     | Latency-associated peptide transforming   |             |
| P15018     | growth factor beta-1                      |             |
| P42702     | Leukemia inhibitory factor receptor       |             |
| P13500     | Monocyte chemotactic protein 1            |             |
| P80075     | Monocyte chemotactic protein 2            |             |
| P80098     | Monocyte chemotactic protein 3            |             |
| Q96961     | Monocyte chemotactic protein 4            |             |
| P03956     | Matrix metalloproteinase-1                |             |
| P09238     | Matrix metalloproteinase 10               |             |
| Q99748     | Neurturin                                |             |
| P20783     | Neurophin-3                              |             |
| O00300     | Osteoprotegerin                           |             |
| P13725     | Oncostatin-M                             |             |
| Q9NZQ7     | Programmed cell death 1 ligand            |             |
| P21583     | Stem cell factor                         |             |
| Q8IXJ6     | SIR2-like protein 2                      |             |
| Q13291     | Signaling lymphoblastic activation        |             |
| P50225     | Sulforatanserase 1A                      |             |
| Q95630     | STAMP binding protein                     |             |
| P01135     | Transforming growth factor alpha          |             |
| P01375     | Tumor necrosis factor                     |             |
| P01374     | TNF-beta                                 |             |
| Q70111     | Tumor necrosis factor receptor superfamily|             |
| O43557     | Tumor necrosis factor ligand superfamily  |             |
| P50591     | TNF-related apoptosis-inducing ligand     |             |
| Q14788     | TNF-related activation-induced cytokine   |             |
| Q96969     | Thymic stromal lymphopoietin              |             |
| P13374     | Tumor necrosis factor (Ligand) superfamily|             |
| O43508     | Urokinase-type plasminogen activator      |             |
| P00749     | Vascular endothelial growth factor A      |             |
| P01138     | Beta-nerve growth factor                  |             |