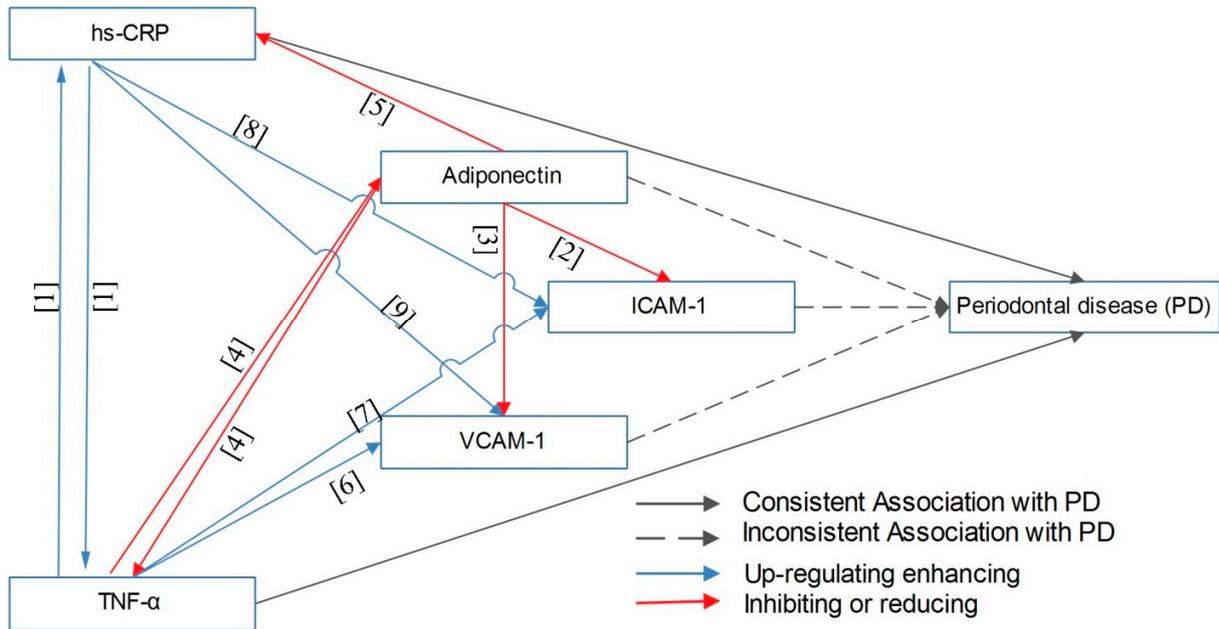


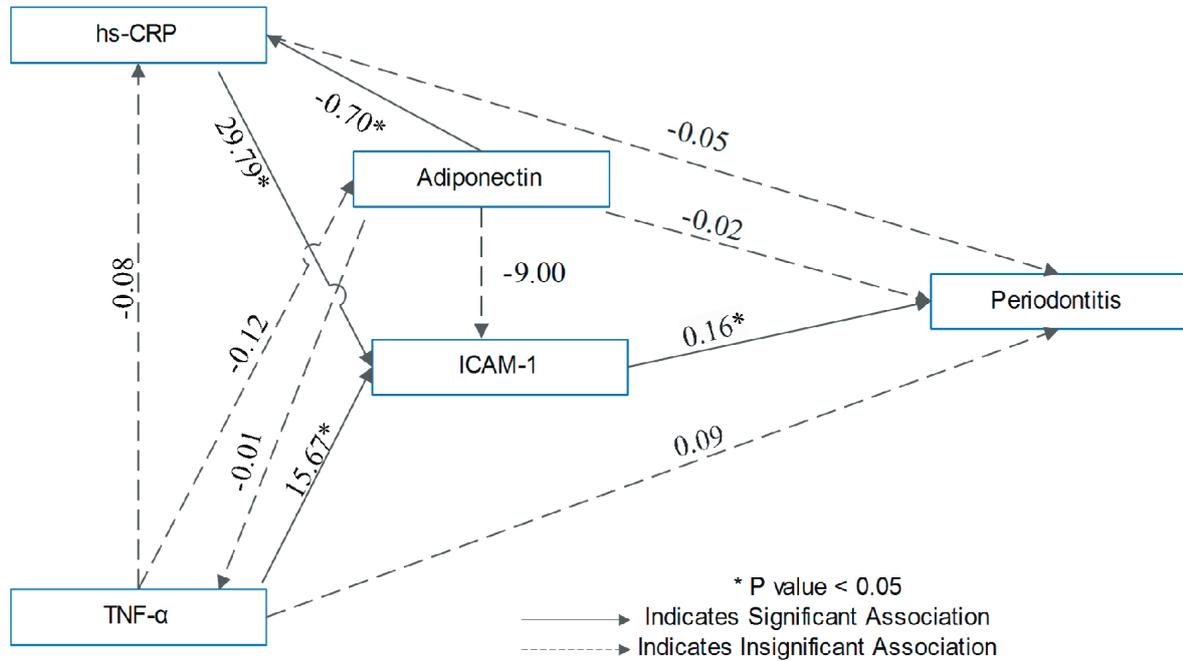
Figure S1: Diagram of theoretical interrelationship between the biomarkers and their associations with periodontal disease (PD) according to literature.



References for the network of inflammatory mediators:

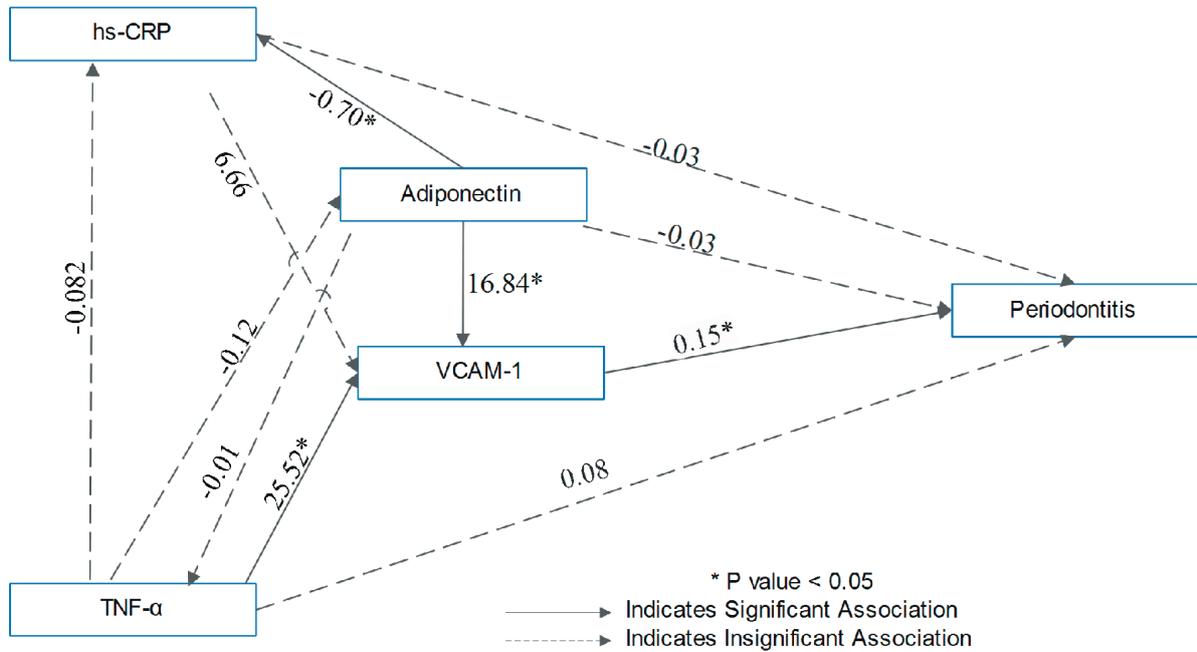
Arrows: [1] TNF- α and hs-CRP¹; [2] Adiponectin and ICAM-1²; [3] Adiponectin and VCAM-1³; [4] Adiponectin and TNF- α ^{2,3}; [5] Adiponectin and hs-CRP³; [6] TNF- α and VCAM-1⁴; [7] TNF- α and ICAM-1^{4,5}; [8] hs-CRP and ICAM-1⁶; [9] hs-CRP and VCAM-1⁶

Figure S2. Generalized structural equation (GSEM) models of the interrelationship between the biomarkers (with 1 standard deviation increase: $\beta_{\Delta=+SD}$)[†], including ICAM-1, and the outcome number of teeth with PPD \geq 4mm and BOP (N=597).



[†] Numbers in the figure indicates beta coefficient ($\beta_{\Delta=+SD}$) of direct association between two connected variables in reference to number of teeth with PPD \geq 4mm and BOP, after adjusting covariates under GSEM-negative binominal regression model.

Figure S3. Generalized structural equation (GSEM) models of the interrelationship between the biomarkers (with 1 standard deviation increase: $\beta_{\Delta=+SD}$)[†], including VCAM-1, and the outcome number of teeth with PPD \geq 4mm and BOP (N=597).



[†] Numbers in the figure indicates beta coefficient ($\beta_{\Delta=+SD}$) of direct association between two connected variables in reference to number of teeth with PPD \geq 4mm and BOP, after adjusting covariates under GSEM-negative binominal regression model.

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