**Table S1** **-** Articles excluded and the reasons for exclusion (n = 25).

|  |  |  |
| --- | --- | --- |
| Reference | Author | Reasons for Exclusion |
|  | Chang et al. (2002) | 2 |
|  | Correa et al. (2015) | 1 |
|  | Correa et al. (2017) | 2 |
|  | Cueno and Ochiai (2016) | 1 |
|  | Eftimiadi et al. (1990) | 2 |
|  | Eftimiadi et al. (1991) | 2 |
|  | Hagi-Pavli et al. (2005) | 4 |
|  | Koseki et al. (1996) | 3 |
|  | Kurita-Ochiai et al. (1998) | 2 |
|  | Levine (1985) | 2 |
|  | Nebe et al. (2001) | 2 |
|  | Noguchi et al. (2000) | 4 |
|  | Pöllänen et al. (1997) | 2 |
|  | Robichaux et al. (2003) | 3 |
|  | Seto et al. (2008) | 2 |
|  | Shah et al. (1992) | 2 |
|  | Singer and Buckner (1981) | 2 |
|  | Tonetti et al. (1987) | 2 |
|  | Touw et al. (1982) | 2 |
|  | Uematsu et al. (2003) | 3 |
|  | Vinolo et al. (2009) | 2 |
|  | Wyss (2007) | 3 |
|  | Yin and Chung (2011) | 3 |
|  | Yoneda et al. (2013) | 3 |
|  | Yoshida et al (2015) | 3 |

Legend: 1 - Reviews, letters, posters, conference abstracts, case reports, animal studies, clinical studies, personal opinions; 2 - Studies in which cell lines used were not epithelial cells or were epithelial cells not derived from human oral tissues; 3 - Studies that focused on bacterial effects and not on short-chain fatty acids; 4 - Studies in which short-chain fatty acids were not applied as an intervention to oral epithelial cells; 5 - Studies with no control group; 6 - Studies in which periodontal disease was not an outcome.

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