**S1 Table. Body weights of mice.** Time-course measurements of the body weights of mice injected with UM-SCC-14A cells challenged with control medium or media containing different periodontal pathogens (*Treponema denticola, Porphyromonas gingivalis* or *Fusobacterium nucleatum;* MOI: 50) then treated with water (control) or nisin (800 mg/kg body weight/day) for 7 weeks.

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| **Body weights of mice before tumor injection: range 20-23g** |
| **1st week after tumor induction** |
|  | **Control** | **Nisin** | **Treponema****denticola** | **Treponema****denticola +****Nisin** | **Porphyromonas****gingivalis** | **Porphyromonas****gingivalis +****Nisin** | **Fusobacterium****nucleatum** | **Fusobacterium****nucleatum +****Nisin** |
| Animalnumber | Body weight(g) | Body weight(g) | Body weight(g) | Body weight(g)) | Body weight(g)) | Body weight(g) | Body weight(g) | Body weight(g) |
| 1 | 22 | 22 | 23 | 24 | 22 | 20 | 22 | 23 |
| 2 | 23 | 22 | 22 | 22 | 21 | 21 | 22 | 23 |
| 3 | 21 | 20 | 23 | 23 | 21 | 21 | 21 | 22 |
| 4 | 23 | 21 | 23 | 22 | 22 | 21 | 23 | 23 |
| 5 | 21 | 23 | 24 | 23 | 23 | 22 | 21 | 21 |
| 6 | 23 |  |  |  | 23 |  | 21 |  |
| **Mean** **Weight** | **22.2** | **21.6** | **23** | **22.8** | **22** | **21** | **21.7** | **22.4** |
| **3rd week after tumor induction**  |
| 1 | 23 | 23 | 24 | 25 | 23 | 22 | 23 | 23 |
| 2 | 24 | 23 | 24 | 24 | 22 | 22 | 25 | 25 |
| 3 | 22 | 22 | 25 | 24 | 22 | 22 | 22 | 23 |
| 4 | 23 | 22 | 23 | 23 | 24 | 22 | 24 | 24 |
| 5 | 23 | 23 | 24 | 24 | 23 | 23 | 22 | 22 |
| 6 |  |  |  |  | 23 |  | 21 |  |
| **Mean** **Weight** | **23** | **22.6** | **24** | **24** | **22.8** | **22.2** | **22.83** | **23.4** |
| **5th week after tumor induction** |
| 1 | 24 | 23 | 25 | 25 | 23 | 22 | 23 | 23 |
| 2 | 24 | 23 | 24 | 24 | 22 | 23 | 25 | 25 |
| 3 | 22 | 22 | 25 | 25 | 23 | 22 | 22 | 23 |
| 4 | 23 | 22 | 25 | 24 | 24 | 22 | 24 | 24 |
| 5 | 24 | 23 | 24 | 24 | 23 | 23 | 22 | 22 |
| 6 |  |  |  |  |  |  |  |  |
| **Mean** **Weight** | **23.4** | **22.6** | **24.6** | **24.4** | **23** | **22.4** | **23.2** | **23.4** |
| **7th week after tumor induction** |
| 1 | 24 | 23 | 28 | 29 | 23 | 25 | 27 | 29 |
| 2 | 26 | 23 | 30 | 27 | 23 | 23 | 29 | 28 |
| 3 | 24 | 22 | 31 | 28 | 23 | 26 | 30 | 29 |
| 4 | 23 | 24 | 33 | 30 | 24 | 24 | 27 | 27 |
| 5 |  | 23 |  | 32 | 25 |  | 28 |  |
| 6 |  |  |  |  |  |  |  |  |
| **Mean** **Weight** | **24.3** | **23** | **30.5** | **29.2** | **23.6** | **24.5** | **28.2** | **28.3** |