



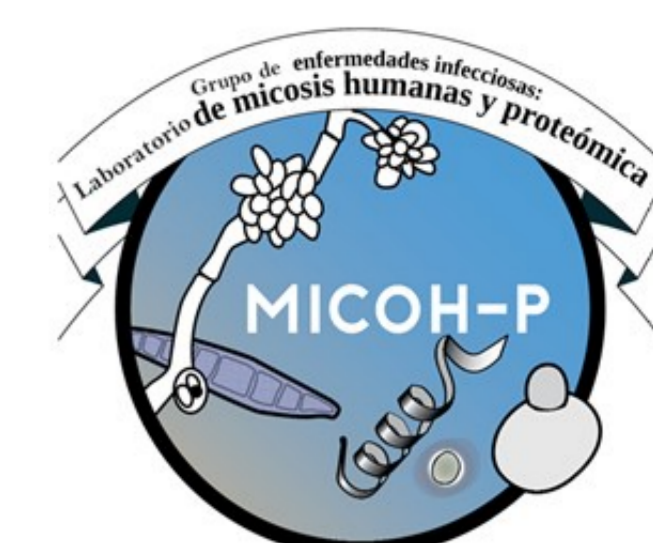
M. Téllez<sup>1,3</sup>, N. Arango<sup>2</sup>, D. Morales<sup>2</sup>, J. Molano<sup>2</sup>, J. Velosa<sup>1</sup>, C. Latorre<sup>1,2</sup>, F. Escobar<sup>1,2</sup>, N. Roa<sup>1</sup>, L. Otero<sup>1</sup>, C. Parra<sup>3</sup>

<sup>1</sup> Centro de Investigaciones Odontológicas, Facultad de Odontología, Pontificia Universidad Javeriana, Bogotá, Colombia.

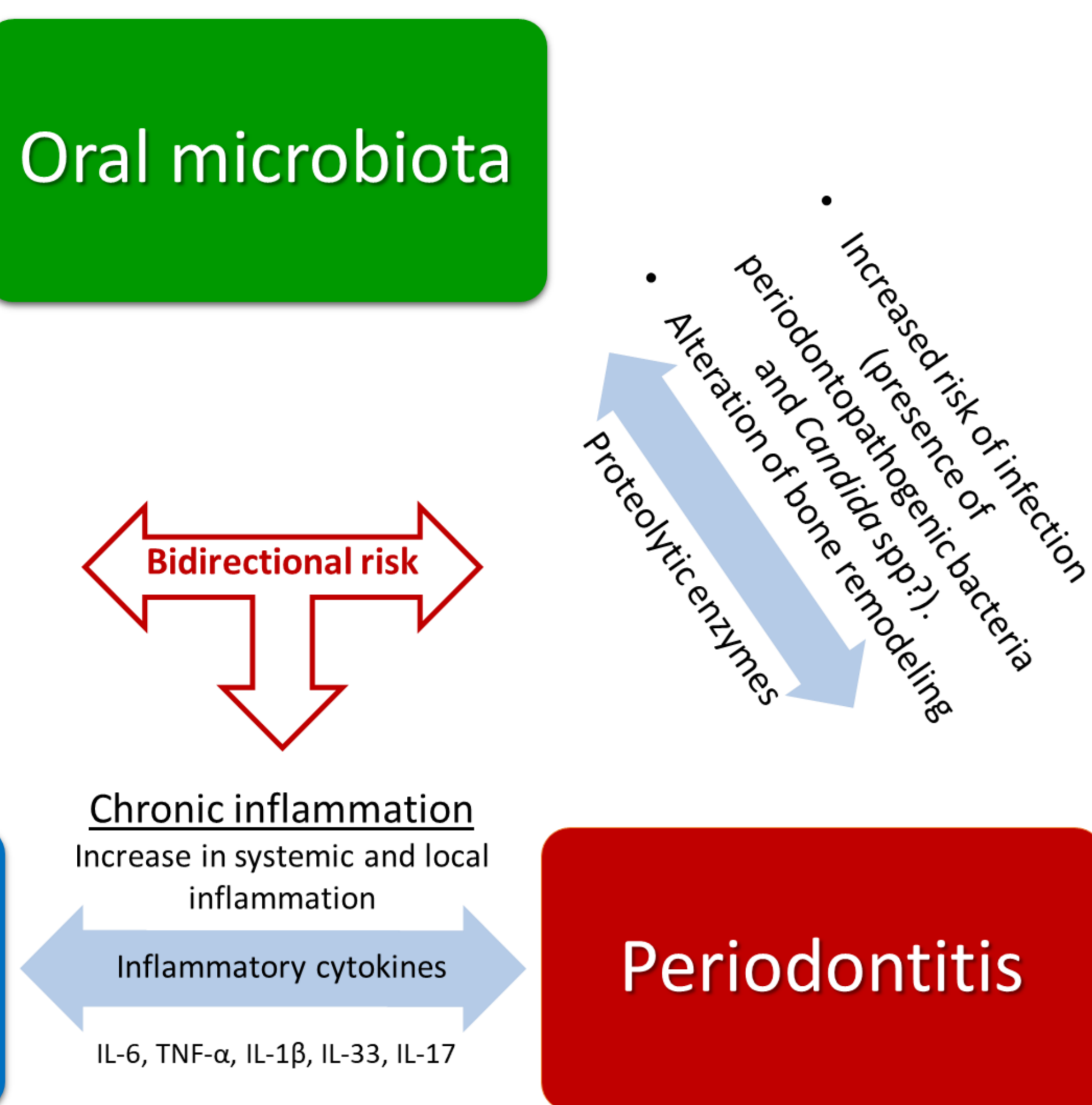
<sup>2</sup> Periodoncia, Facultad de Odontología, Pontificia Universidad Javeriana, Bogotá, Colombia.

<sup>3</sup> Laboratorio de Micosis Humanas y Proteómica, Facultad de Ciencias, Pontificia Universidad Javeriana, Bogotá, Colombia.

tellezm@javeriana.edu.co



## Background

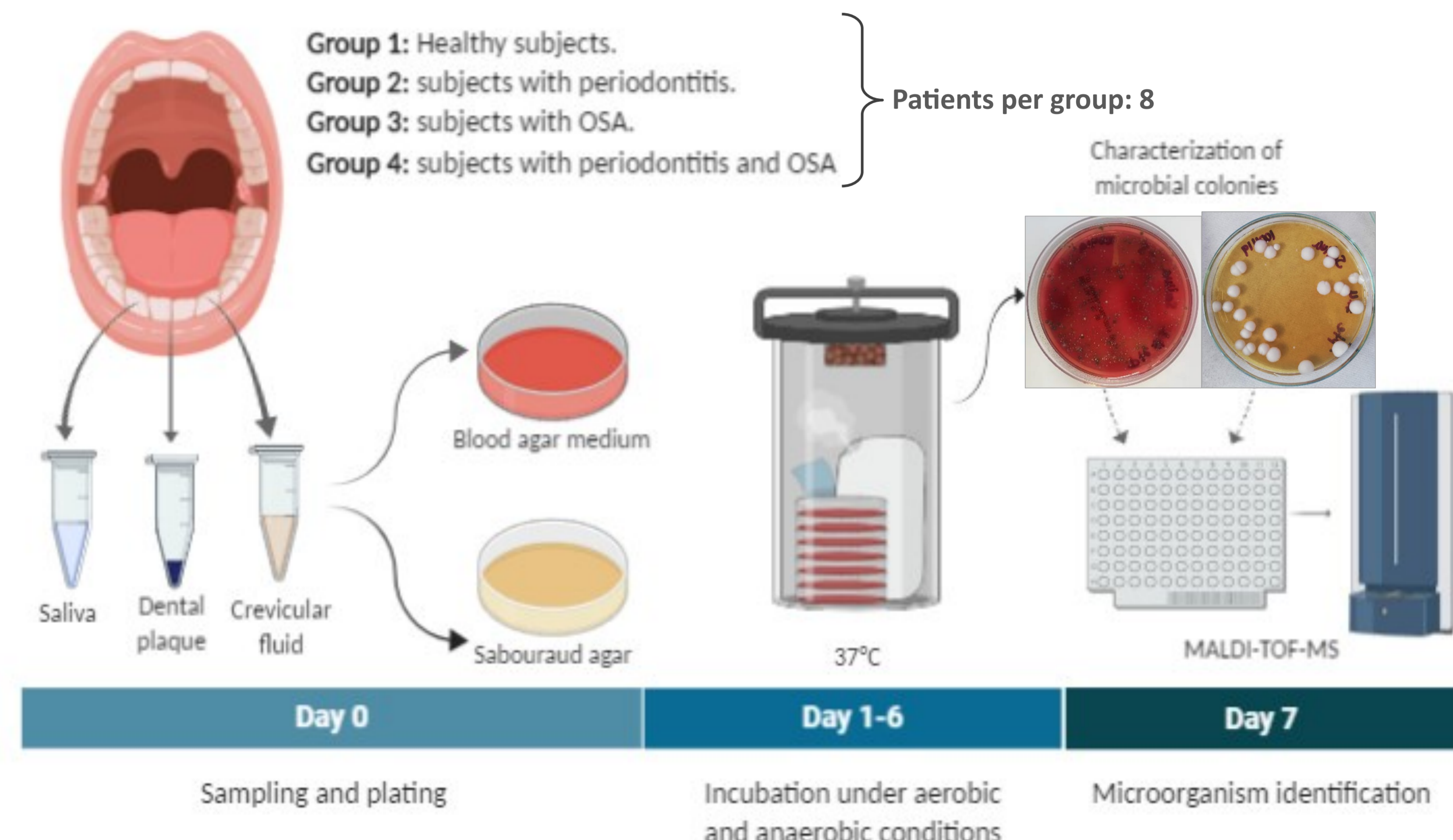


The relationship between OSA and Periodontitis has yet to be fully elucidated

## Aim

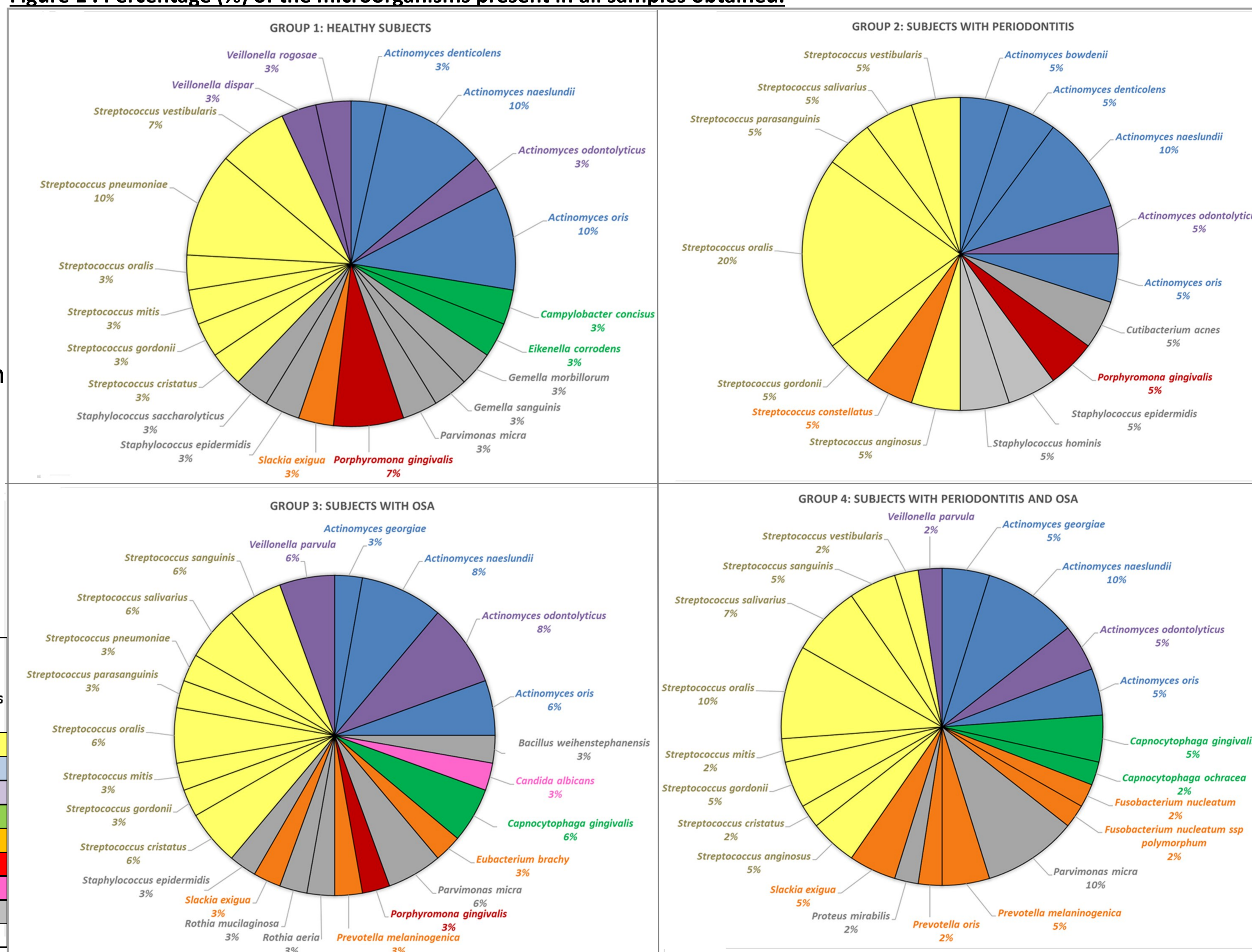
To identify the microorganisms present in the oral microbiota of subjects diagnosed with moderate to severe periodontitis and OSA, as well as to establish what impact these conditions have on the Oral microbiota.

## Materials and methods



## Results

Figure 1 . Percentage (%) of the microorganisms present in all samples obtained.



## Conclusions

These results extend our knowledge of disease-specific differences in the oral microbiota associated with periodontitis and obstructive sleep apnea (OSA): we determine the presence of bacteria such as *Capnocytophaga* spp., *Fusobacterium* spp., *Prevotella* spp. and *Parvimonas micra*, which are often isolated in subjects with periodontitis. In addition, we were able to determine the presence of yeast like *Candida albicans* in subjects with periodontitis and OSA. It shows the importance of designing new periodontal therapies according to the microbial community associated with subjects with OSA.

## Bibliografy

- Keller et al. Association between obstructive sleep apnoea and chronic periodontitis: a population-based study. *J Clin Periodontol.* 2013; 40(2):111-7.
- Seo et al. The association between periodontitis and obstructive sleep apnea: a preliminary study. *J Periodontal Res.* 2013;48(4):500-6.
- Billings ME. Putting Some Teeth into It: Connecting Periodontitis with Sleep Apnea. *Sleep.* 2015;38(8):1153-4.

## Acknowledgements

- This project was supported by resources of the Vice-Rectorcy of Research of Pontificia Unviersidad Javeriana - PUJ with Proposal #8144.
- Centro de Investigaciones Odontológicas. Facultad de Odontología - PUJ.
- Laboratorio de Micosis Humanas y Proteómica, Facultad de Ciencias - PUJ.