

**Methods:** Bacterial strains and growth conditions. *P. gingivalis* and derivatives were grown anaerobically at 37°C in Trypticase soy broth (TSB) supplemented Per liter with 1 g of yeast extract, 5 mg of hemin, and 1 mg of menadione. When necessary, gentamicin and erythromycin were added to the medium at final concentrations of 200 and 10mcg/ml, respectively. Solid medium was prepared by supplementation with 5% sheep blood and 1.5% agar by disc diffusion methods and MIC techniques determined the antibiotic responses.

**Background and Aim:** The Porphyromonas gingivalis a major Gram-negative bacterium pathogen of periodontal disease possesses a number of virulence factors. Including fimbriae, hemagglutinins, lipopolysaccharides and proteinases. *P. gingivalis* cells were grown anaerobically (10% CO<sub>2</sub>, 10% H<sub>2</sub>, 80% N<sub>2</sub>) in enriched brain heart infusion medium and on enriched trypticase soy agar. For blood agar plates, defibrinated laked sheep blood was added to enriched trypticase soy agar at 5%. For selection and maintenance of antibiotic resistant *P. gingivalis* strains the some antibiotics to standard *P. gingivalis*. In this study, we have investigated the responses of *P. gingivalis* to antibiotics over potential differentially expressed transcripts were identified.

- Affiliation:**
- 1- Microbiology Department, Medicine Faculty, Shahed University, Tehran, Iran
  - 2- Oral and Maxillofacial pathology Department, Dentistry Faculty, Shahed University, Tehran, Iran
  - 3- Oral and Maxillofacial pathology Department, Dentistry Faculty, Shahed University, Tehran, Iran
  - 4- Microbiology Department, Medicine Faculty, Shahed University, Tehran, Iran

✓Nikan Mohammad<sup>1</sup> - Corresponding, Jalayer naderi Nooshin<sup>2</sup>, Jamshtidian hadise<sup>3</sup> - Presenter, Hoseini Sare<sup>4</sup>

**In vitro study antibacterial susceptibility of Porphyromonas gingivalis bacteria as a oral Pathogen**

PBA-148

