

Laboratory for Integral Dentistry, (LID). Center of Research and Development in Health Science (CIDICS).

Services

- Susceptibility testing of antimicrobial agents and viability
- Determination of antimicrobial activity and viability in germicidal products.
- Protein analysis: in complex mixtures and purification.
- Studies of biofilm formation by pathogen microorganisms. *Training and inhibition for pharmaceutical, food and medical applications.* Design of biofilm with applications in food industry.
- Evaluation of cytotoxic activity of natural products.
- Determination of gene expression of microorganisms involved in *Quorum sensing*.
- Design of research protocols for academic and industrial projects.

Description

The aims of this unit is to determine the etiology of diseases in the oral cavity and implement the use of biotechnological tools for their treatment. Also seeks to identify biomolecules as new antimicrobial options, mimicking the natural behavior of oral bacteria.

The unit has an infrastructure that support research: anaerobic-chamber, microscope for fluorescence (Axio Inverter Z.1, Carl-Zeiss), a Stereomicroscope (Carl-Zeiss), Incubators, Analgesiómetro, Real-time Real-time and End-Point Thermal Cycler, Gel Doc XR, Cameras electrophoresis, Analysis of proteins by ionic charge (Protean IEF Cell), Densitometer GS-800 (hydrophobicity of several compounds), Spectrophotometer, fume hood, ELISA plate reader for 96 wells, ice machine, deep freezer at -80°C .

Responsible

PhD., D.S. Myriam A. de la Garza Ramos. *Head of the LID.*

Contact

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