**ULTRASTRUCTURAL VISION OF *AEROMONAS* spp: UNUSUAL FINDINGS.**

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BACKGROUND.Themesophilic Aeromonads are emerging as important pathogens in humans, causing a variety of extraintestinal and systemic infections, as well as gastrointestinal infections and, at this moment, the *Aeromonas* infection remain among those infectious disease of potentially serious threat to public health. Recent studies seem to strength enthishypothesis as thevirulence of thisgenusdependsonthebacterialstrain and thereis a greatdiversitywithinthegenus and, somevirulencefactorswillprobablynot be present in thesestrainsorthesestrains show differentmechanism to infectthe host thanothers. In theresearchcarriedout, thisbacterialgroupshowedthepresence of celular Surface structuresthathavebeendescribed: polar flagella, severalfilamentousadhesinstypes (pili), capsule and “S” layer [1,2].However, diverseaspects of theultrastructure of thecell are stillunknow.Ontheotherhand, in previousstudiesweobservedultrastructuralsdifferences in one*Aeromonas*strainisolatedfromasymptomaticpatient and, theotheronefrom a patientwithdiarrea [3].

OBJECTIVE. This work focuses in the analysis of the diverse ultrastructuralaspects of the one *Aeromonas* strain isolated from a patient with diarrheic syndrome.

METHODS. The investigation wascarried out applying the negative stain and transmission electronmicroscopy.

RESULTS. In theanalyzed*Aeromonas*strain, theseunusualfindingswereobserved: presence of mesosomes, as well as theexistence of twomorphotypeshavingultrastructuralpatternsverywelldefined and different, outermembranevesicles(OMVs) wereseenontheouter Surface of the*Aeromonas*cell.

CONCLUSION.Theresultsobtained show again, thegreatheterogeneity of thisgenus,theexistence of differences in ultrastructuralcellmorphology in strainsproducingdiarrheicsyndrome and, outlinetheneed to carryout more studieswithseveral*Aeromonas*strains to determine, thefrequency of appearance of thedifferentphenotype and ifit has relationshipwithitspathogenicpotential.

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[2]Igbinosa I.H, Igumbor E.V, Aghdasi F, Tom M, Okoch A.I. (2012) **Emerging *Aeromonas* species infections and their significance in public health.** *The scientific world journal*.**2012**:1- 13. doi:10.1100/2012/625023.

[3]Longa-Briceño, A., Peña-Contreras, Z.,Dávila, Vera, D., Mendoza-Briceño, Rosa., Palácios-Prü, E. (2012) **Tissue Cultureto Assess Bacterial Enteropathogenicity**. In: BiomedicalTissueCulture. Intech. ed. Luca Ceccherini-Nelliand Barbara Matteoli. Croatia, pp.203-220, ISBN 978-953-51-0788-0.