



## ORAL PRESENTATION ABSTRACT

### 2.5. "Plastination of Bovine Brain Sections with Polyester Resin". "Plastinación de Cortes de Encéfalo Bovino con Resina Poliéster".

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The plastination technique is a conservation technique described by Dr. Ghunter Von Hagens in 1977. Among the techniques described is the plastination of sections with polyester resin. This work was carried out in the Department of Anatomy of the Faculty of Veterinary Sciences of the University of Buenos Aires in the year 2022. We used the plastination technique at room temperature with polyester resin and the reagents used were national polyester resin and its catalyst. The processed samples were bovine brain sections previously fixed for more than 6 months in a 10% formaldehyde solution. The cuts were made with a circular blade machine and with a thickness of approximately 5mm. The fixed pieces were rinsed under running water for 24 hours and then proceeded with cold dehydration with previously cooled acetone. Increasing concentrations were used for one week. Once the pieces were dehydrated, they were forced impregnated, in the vacuum chamber, with resin without catalyst for 24 hours. The sections were then placed in a plastic tray between acetate plates with polyester resin mixed with its catalyst. A weight was placed on the acetate plates to prevent the sections from floating and generating air bubbles. The results were evaluated by assessing the organoleptic characteristics of the pieces obtained. In all of them it was possible to preserve the macroscopic aspect, colors and texture of the pieces. An acceptable level of shrinkage was recorded in all.