



UNIVERSITY OF MURCIA
Department of Veterinary Anatomy

**XVII POSTGRADUATE COURSE
SHEET PLASTINATION
Technique P-40**

December 14-15th, 2017
Faculty of Veterinary
Murcia, Spain

PROGRAM

Thursday 14th

09:00 WELCOME

09:15 **Introduction to the Plastination.** Mains steps in the plastination techniques. (R. Henry)

9:45 **P-40 Technique.** Protocol and applications. (3D reconstruction). (C. Sora / R. Latorre)

10:15 Coffee (Veterinary Faculty)

10:30 Practice session in the plastination lab.

Visit to the plastination lab: Localization and safety conditions.

Basic equipment for P40 technique in a plastination lab.

Visit to the Anatomy Museum

13:30 Lunch (Veterinary Faculty)

14:30 P-40 Technique: **Dehydration.** (K. de Jong)

15:30 Practice session in the plastination lab

Preparation of brain specimens for sectioning

Preparation of frozen specimens for sectioning

Training of brain sectioning in a disc saw

Training of frozen specimens sectioning in a band saw

Cleaning the surfaces of the sections after cutting

Dehydration of sections, measurement of % acetone purity

Acetone recycling

18:00 Questions and discussion

20:30 Dinner: participants and professors



Friday 15th

9:00 P-40 Technique: **Polymer Impregnation** (C. Sora)

9:45 **Potential of E12 for researching** (C. Sora)

10:15 Coffee (Veterinary Faculty)

10:30 Practice session in the plastination lab

Connection of the vacuum system for impregnation

Training with vacuum pressure in the circuit

Reading of the negative pressure

Cheeking the bubbling speed

Finish the impregnation and open the vacuum chamber

Preserving the plastinated sections before casting

13:30 Lunch (Veterinary Faculty)

14:30 P-40 Technique: **Polymerization and casting**. (O. López Albors)

15:30 Practice session in the plastination lab.

Preparation of glass chambers for casting

Position of the section in the chambers

Necessary conditions

Curing of sections with uva light

Finished of cured sections

17:30 **Applications of plastinated specimens and cost of basic equipment for**

P40 (K. de Jong)

18:00 Course Evaluation

20:30 Working dinner of professors for conclusions.