Abstract Template

Title: Forensic Microanthropology: A New Specialty in the Forensic Sciences

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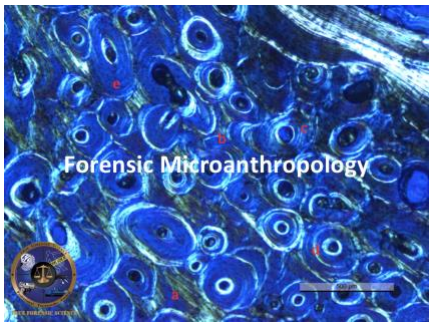
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Keywords: ***Microanthropology, Fibrolamellar, Osteon, Banding, Lamellar, Plexiform***

I. Abstract Body (up to 250 words)

This study is focused on reviewing and developing standards and guidelines in Forensic Microanthropology related to identification and microscopic differentiation between human and non-human bones. This study developed a protocol, which describes the basic tools and equipment necessary to achieve this type of analysis. Also describes the preparation process of the evidence to be analyzed under the microscope, as well as the microscopic identification methods (e.g. qualitative and quantitative approaches). This study was developed in Chaminade University of Honolulu, USA. To validate this study, the samples were analyzed one more time in the Laboratories of The Department of Defense of the United States *POW/MIA Accounting Agency's DPPA-CIL Hawai'i, USA*. The original goal for this study was to show the importance of Forensic Microanthropology for the understanding of microscopic differences between human and non-human bones. Forensic Microanthropology is a new forensic science field, easy to learn and inexpensive, which can be of use in human identification processes in every forensic laboratory around the world. Since 2017, students of Forensic Science at Chaminade University of Honolulu have been learning Forensic Microanthropology and they have shown 100% positive identification and differentiation of human and nonhuman bone after their training.

II. Image:



III. References:

1 Carter JG (1990) "Skeletal Biomineralization: Patterns, Process and Evolutionary Trends. Volume I", Van Nostrand Reinhold, NY, USA.

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3 Gutierrez, CA, (2016) "*Manual de Microantropología Forense, Técnica de Preparación y Análisis Comparativo de Fragmentos Óseos Humanos y No Humanos",* True Forensic Science Series, Honolulu, HI, USA.

4 Maat GJR, Van Den Bos RPM, Aarents MJ (2001) *"Manual Preparation of Ground Sections for the Microscopy of Natural Bone Tissue: Update and Modification of Frost's 'Rapid Manual Method'"*, International Journal of Osteoarchaeology 11: 366–374

IV. Biography:

Carlos A. Gutierrez, is Ph.D. Student. He has his Master of Science in Forensic Sciences in Chaminade University of Honolulu, USA and his Master in Educational Management in Chile. He is retired Capitan of the Chilean National Police after 18 years of service. He is Lecturer of Forensic Sciences of Chaminade University of Honolulu, and Co-founder of True Forensic Science. He is expert in Crime Scene Investigation and developed the Forensic Microanthropology. He worked in more than 6,000 forensic cases in his career.

V. Presenting author details



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