

## Determination of Sex on the Basis of Ear Prints

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### Abstract

Ear patterns can be used as the unique feature to establish the identity of the individual. If not that we can at least eliminate out the 50% population on the basis of gender by knowing that the ear pattern is of a male or female which can give us a big lead in the process of investigation. Ear prints can be found at the crime scene and then further can be matched with the suspect or can also help in identification of the dead body which can be done by matching the ear pattern of the body to the past pictures of the suspected person. This paper will give some information about the previous research but will mainly concentrate about the research and results we got after analyzing this topic. Ear molds were prepared of live population then analysis and comparison between male and females were done by the help of different measurement equipments. The results will reveal that in humans ear prints are different from each other. Parameters that we had taken are overall length, internal breadth, height of tragus, length of helix of the external ear which will conclude that ear pattern of a female is overall smaller in comparison with the ear pattern of a male. It was also state that the average of each of these characteristics on the test population of male is larger than female. A more physical approach has been carried out in this research, in which a chemical compound alginate-zelgan 2002 had been taken to prepare ear mold of external ear and the pattern of the external ear was studies to see the differences between pattern of each individual as well as the difference between human male and female external ear pattern.

Keywords: - Ear pattern, Significance, Ear molds, Population, Investigation, Individual, Unique, Measurement.

### Biography

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