

Telangana state science congress (TSSC-2018)

Title: DNA identification of object and Vaginal Epithelial cell in Sexual assault case, where penetration without Ejaculation by Sexual Assailants.

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ABSTRACT:

Sex related crimes are the most heinous humiliating and unwitnessed crime. Women and Children remain the most vulnerable group to this crime. To determine the genetic profile of the male donor in the presence of large quantities of female DNA. In case of stains that contain mixed DNA from different contributors, analyzing condom, male epithelial cell from vaginal Swab. The presence of a single allele from each male should facilitate the determination of the correct number of male donors. To determine the level at which two male samples in a mixed sample could be detected. DNA from two males was mixed in various ratios (1/2, 1/3, 1/6, 1/12, 1/15, 1/20, 1/30) and a total of 3 ng amplified and typed using Y-STR profile. The presence of two individuals as determined by the presence of more than two allelic signals at a single locus (except DYS385), was clearly discernible when the 1st Suspect was present at 1/2, 1/3, 1/4 and 1/6 concentration of the suspect 2nd. However, when the first contributor comprised 1/12 or less of the total DNA in which male epithelial DNA was found by Identifiler and the second contributor by Y-STR profile was noticeable in inside part of condom. The identification of the number of male donors by Y-STR analysis is exemplified in the case of a two-male admixture with condom and the Significance of condom evidence confirm victim statements rape claimed and evidence of vaginal Penetration.

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AUTHORS DECLARATION

The paper entitled “ **DNA Identification of object and vaginal epithelial cell in Sexual assault case, where penetration without ejaculation by Sexual Assailants**” submitted for best paper during the **Telangana state science congress (TSSC-2018)** has not been published /sent for publication and it is the original work of the author concerned

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